Service Manual

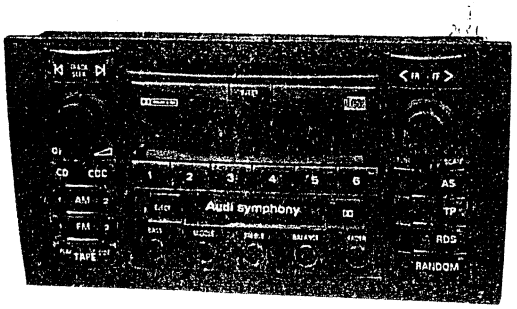
AUTOMOTIVE ELECTRONICS

AUDI

VEHICLE	DESTINATION	PRODUCED AFTER	AUDI PART NO.	MATUSHITA MODEL NO.
A4	Europe	Feb., 1999	8D0 035 195	CQ-LA1820L
A6	Europe	Feb., 1999	4B0 035 195	CQ-LA1821L
A8	Europe	Feb., 1999	4D0 035 195	CQ-LA1822L

COMPACT disc DIGITAL AUDIO

AM/FM MPX ELECTRONIC TUNING RADIO
with stereo cassette tape player and CD player



< CQ-LA1820L>

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol ◧◨ are trade marks of Dolby Laboratories Licensing Corporation.

Specifications*

Power Supply : DC 12V (11V ~ 16V), Test Voltage 13.2V, Negative Ground
Current Consumption : Less than 4.0A
Power Output : 12W×12W
Speaker Impedance : 4Ω

FM Stereo Radio
Frequency Range : 87.5 ~ 108.0MHz
Usable Sensitivity : 5dB (μV) (S/N 30dB)
Stereo Separation : 35dB

AM Radio
Frequency Range : 531 ~ 1,6020kHz
Usable Sensitivity : 23dB (μV) (Vol. Max.)

Tape Player
Repreduction System : 4-Track, 2-Program Stereo
Tape Speed : 1-7/8" (4.76cm/sec)
Wow and Flutter : 0.09% (WRMS)
Stereo Separation : More than 30dB
Signal/Noise Ratio : More than 42dB

CD Player
Channel : 2 channels
Signal to Noise Ratio : More than 90dB
Total Harmonic Distortion : Less than 0.02%
Channel Separation : More than 80dB

Dimensions** : 178(W)×164.5(D)×110(H) mm

* Specifications subject to change without notice.
** Dimensions and Weight showm are approximate.

Panasonic

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(Recycled Paper)

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced proffesional technicians. Any attempt to service or repair the product or producs dealt with in this service information by anyone else could result in serious injury or death.

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FEATURES

- PLL (Phase Locked Loop) synthesized tuning.
- 24-station preset (6-AM1,6-AM2, 6-FM1, 6-FM2)
- RDS function.
- Diversity function.
- Dolby noise reduction.
- NCD-5 CD player.
- CD changer control.
- BOSE specification correspondence.
- Anti-theft system.

LASER PRODUCTS

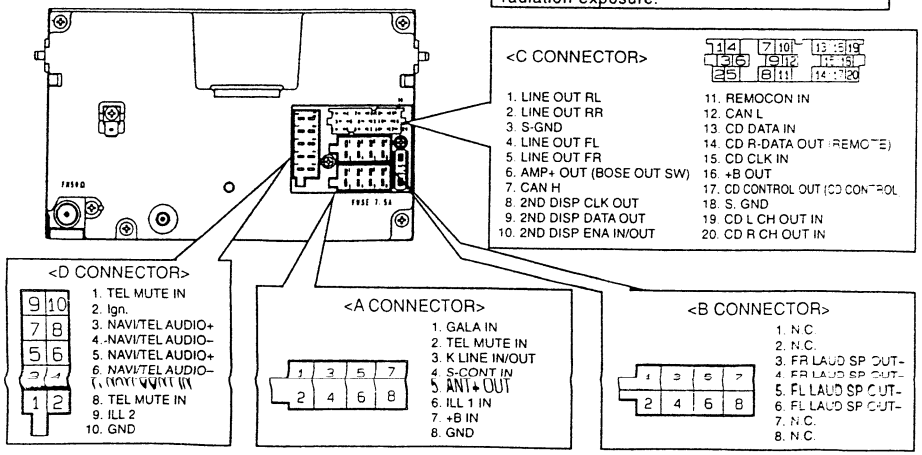
Do not take apart this unit or attempt to make any changes yourself.
This unit is very intricate that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

Laser products:

Wave Length	780nm
Laser power	No hazardous radiation is emitted with safety protection.

Caution
This product utillzes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

REAR VIEW AND CONTROLS



<C CONNECTOR>

1. LINE OUT RL	11. REMOCON IN
2. LINE OUT RR	12. CAN L
3. S-GND	13. CD DATA IN
4. LINE OUT FL	14. CD R-DATA OUT (REMOTE)
5. LINE OUT FR	15. CD CLK IN
6. AMP+ OUT (BOSE OUT SW)	16. +B OUT
7. CAN H	17. CD CONTROL OUT (CD CONTROL
8. 2ND DISP CLK OUT	18. S. GND
9. 2ND DISP DATA OUT	19. CD L CH OUT IN
10. 2ND DISP ENA IN/OUT	20. CD R CH OUT IN

<D CONNECTOR>

1. TEL MUTE IN
2. Ign.
3. NAVI/TEL AUDIO+
4. NAVI/TEL AUDIO–
5. NAVI/TEL AUDIO+
6. NAVI/TEL AUDIO–
7. (illegible)
8. TEL MUTE IN
9. ILL 2
10. GND

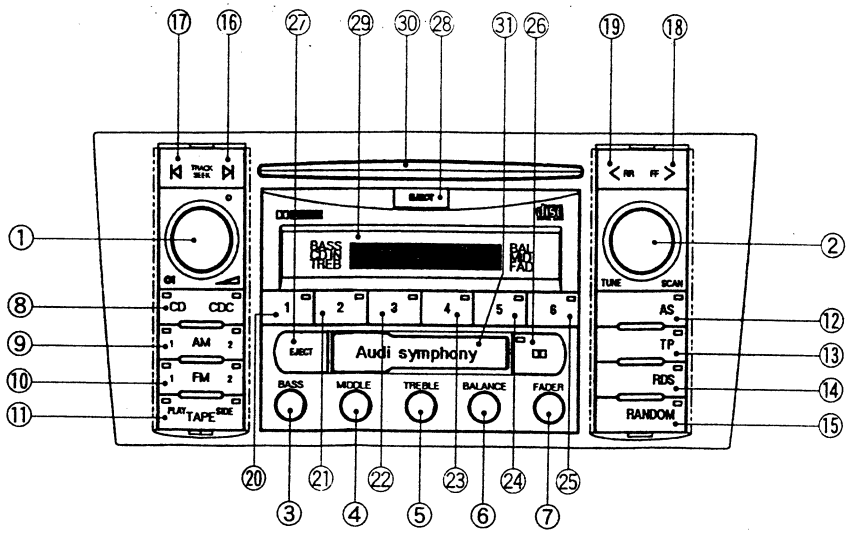
<A CONNECTOR>

1. GALA IN
2. TEL MUTE IN
3. K LINE IN/OUT
4. S-CONT IN
5. ANT+ OUT
6. ILL 1 IN
7. +B IN
8. GND

<B CONNECTOR>

1. N.C.
2. N.C.
3. FR LAUD SP OUT-
4. FR LAUD SP OUT+
5. FL LAUD SP OUT-
6. FL LAUD SP OUT+
7. N.C.
8. N.C.

FRONT VIEW AND FUNCTION



① PWR	: Power on/off.	⑯ TRACK ▶▶|	: CD track up/TPS FF.
VOL	: Increase/Decrease of volume.	SEEK ▶▶|	: Radio seek up.
② TUNE	: Radio manual tuning.	⑰ TRACK |◀◀	: CD track down/TPS REW.
SCAN	: Scan tuning/Scan play.	SEEK |◀◀	: Radio seek down.
	: Audio level adjustment.	⑱ FF >	: CD fast-forward.
③ BASS	: Bass adjustment mode.		: Tape fast-forward.
④ MIDDLE	: Middle adjustment mode.	⑲ FR <	: CD fast-backward.
⑤ TREBLE	: Treble adjustment mode.		: Tape rewind.
⑥ BALANCE	: Balance adjustment mode.	⑳ ~ ㉕	: Radio frequency preset/call.
⑦ FADER	: Fader adjustment mode.		: CD CH disc selection.
⑧ CD/CDC	: CD player/CD changer selection.	㉖ DD	: Dolby on/off.
⑨ AM 1/2	: AM radio selection.	㉗ EJECT	: Tape eject.
⑩ FM 1/2	: FM radio selection.	㉘ EJECT	: CD eject.
⑪ TAPE	: Tape play starts.	㉙ LCD display.	
	: Tape side changes.	㉚ CD slot.	
⑫ AS	: Radio band Auto-store.	㉛ Cassette slot.	
⑬ TP	: TP receiving mode selection.		
⑭ RDS	: RDS mode selection.		
⑮ RANDOM	: CD/CDC ramdom play.		

OPERATION OF CONTROL

1. POWER SWITCH AND VOLUME CONTROL

	Operation	Working
1	• Press the PWR knob ①. • Press the PWR knob ① again.	• Power is on. • Power is off.
2	• Turn the knob ① to the right. • Turn the knob ① to the left.	• Increase the volume. • Decrease the volume.

2. BASS, MIDDLE TREBLE, BALANCE AND FADER

	Operation	Working
	<Bass adjusting mode>	
1	• Press the button ③. • Turn the knob ② to the right.	• Low tone gradually increase.
	• Turn the knob ② to the left.	• Low tone gradually decrease.
	<Middle adjusting mode>	
2	• Press the button ④. • Turn the knob ② to the right.	• Middle tone gradually increase.
	• Turn the knob ② to the left.	• Middle tone gradually decrease.
	<Treble adjusting mode>	
3	• Press the button ⑤. • Turn the knob ② to the right.	• High tone gradually increase.
	• Turn the knob ② to the left.	• High tone gradually decrease.
	<Balance adjusting mode>	
4	• Press the button ⑥. • Turn the knob ② to the right.	• Left-side volume decrease.
	• Turn the knob ② to the left.	• Right-side volume decrease.
	<Fader adjusting mode>	
5	• Press the button ⑦. • Turn the knob ② to the right.	• Front-side volume decrease.
	• Turn the knob ② to the left.	• Rear-side volume decrease.

3. OPTIONE MENU

	Operation	Working
1	• Press and hold the TP button ⑬ and make a power on.	• The option menu mode starts.
2	• Press the TP button ⑬.	• The menu item changes as below whenever the button is pressed. → TA → GALA → VOL → SENS DX → TUNE MAN ← TEL ← NAV ← RM ←
3	• The setting contens of each item. TA : TA volume level. (1-5) GALA : GALA effect value. (1-5) VOL : Volume level. (1-5) SEN DX : Seek sensitivity. (LOC/DX) RM : Radio monitor. (ON/OFF) NAV : NAVI mute value. (1-5) TEL : The telephone conversation output speaker. (R/L)	

4. RADIO FUNCTION

1) BAND SELECTION

	Operation	Working
1	• Press the button ⑨. • Press the button ⑩.	• The radio band becomes AM1/AM2. • The radio band becomes FM1/FM2.

2) MANUAL TUNING

	Operation	Working
1	• Turn the knob ② to the right.	• Receiving frequency becomes higher by one step. • One Step : 9kHz (MW) 100kHz (FM)
2	• Turn the knob ② to the left.	• Receiving frequency becomes lower by one step.

3) SEEK TUNING

	Operation	Working
1	• Press the SEEK button ⑯.	• The seek operation in the screen up direction is made. • The play stops when there is a station and this state is kept as is.
2	• Press the SEEK button ⑰.	• The seek operation in the screen down direction is made. • The play stops when there is a station and this state is kept as is.

4) STORE

	Operation	Working
1	• Press the AS button more than 2 sec.	• The available stations will automatically preset into AS-band. • For the AM band will preset up to 12 strongest available stations. • For the FM band will preset up to 12 stations in order of PI code.

5) SCAN UP TUNING

	Operation	Working
1	• Press the knob ②.	• The frequency becomes continuously higher by one step. • When receiving a station, scanning operation pauses automatically for approx 8 sec, and then start scanning for next station again.

6) PRESET

	Operation	Working
1	• Press the button ⑳~㉕ more than 2 sec.	• 24-station preset tuning. (6-AM1, 6-AM2, 6-FM1, 6-FM2)
2	• Press the button ⑳~㉕ less than 2 sec.	• Calls the presetting frequency. [Preseted value] FM1, 2 87.5MHz AM1, 2 531KHz

7) RDS

	Operation	Working
1	• Press the RDS button less than 2 sec.	• In FM or TP band, "RDS function" can be switched on/off cyclically. • In "RDS ON mode", some functions are activated, and some functions are canceled as below. • PS (Program Service name) displaying. • AF (Alternative Frequencies) function. • AUTO REG function. • RDS station memory/recall function. • Program Seek/Scan function.

5. TAPE CONTROLS

1) TAPE MODE

	Operation	Working
1	• Press the TAPE PLAY button ⑪.	• The tape play mode starts when a tape is leaded.

2) FF, REW

	Operation	Working
1	• Press the button ⑱.	• If the tape is playing, the FF mode is selected.
2	• Press the button ⑲.	• If the tape is playing, the REW mode is selected.

3) SIDE

	Operation	Working
1	• Press the TAPE SIDE button ⑪ while tape playing.	• The playing tape side change to the other side.

4) SCAN

	Operation	Working
1	• Press the knob ②.	• The first 10 seconds of each music plays in order.

5) DOLBY

	Operation	Working
1	• Press the button ㉖.	• The Dolby indicator lights (In the tape mode). • Dolby ON-OFF-ON is repeated each time the NR button is pressed.

6) TPS

	Operation	Working
1	• Press the button ⑯.	• The tape runs fast-forward until detecting the top of next music, and plays.
2	• Press the button ⑰.	• The tape runs rewind until detecting the top of current music, and plays.

6. CD/CDC CONTROLS

1) CD/CDC MODE

	Operation	Working
1	• Press the CD button ⑧ .	• The CD play mode starts when a disc is loaded.
2	• Press the CDC button ⑧ .	• The CDC play mode starts when CD is connected.

2) TRACK UP, DOWN

	Operation	Working
1	• Press the button ⑯.	• A Track number increase and playback starts from the top of the track.
2	• Press the button ⑰.	• A Track number decrease and playback starts from the top of the track.

3) FAST UP, DOWN

	Operation	Working
1	• Press the hold the button⑱ .	• The fast-forward mode starts.
2	• Press the hold the button⑲ .	• The fast-backward mode starts.

4) SCAN

	Operation	Working
1	• Press the SCAN knob ② .	• The first 10 seconds of each track plays in order.

5) RANDOM

	Operation	Working
1	• Press the RDM button ⑮ .	• A random selection of music is played.

6) DISC CHANGE

<Only for CD changer control mode>

	Operation	Working
1	• Press the button ⑳~㉕	• The disc of selecting number is loaded and plays from the top of first track.

7. ANTI-THEFT

	Working
1	<Waiting for an Entry of Secrrity Code> 1) The following display is made when the unit for preventing thefts is mounted in the equipment to wait for an entry of anti-theft code. SAFE 2) Press and hold the TP and RDS buttons (⑬, ⑭) more than 3 secondes.
2	<An Entry of Anti-theft Code> •To enter the anti-theft code, use preset buttons⑳~㉓.
3	<When the Entered Code Coincides> • The equipment is placed in the radio mode of operation.
4	<When the Entered Code Does Not Coincides> • The equipment is put in a anti-theft code entry waiting state as mentioned in 1-1) above.
5	<When the State of Item 4 Repeated two Times> •All operations are disabled.
6	<Security Code Re-Entered State> <The first time of the state of item 5> • After the until elapse 10 minutes, the equipment is placed item 2. <The second time of the state of item 5> • After the until elapse 10 minutes, the equipment is placed item 2. <The third time of the state of item 5> • After the until elapse 60 minutes, the equipment is placed item 1-1).

ALIGNMENT INSTRUCTIONS

- Power Supply Voltage : DC13.2V
- Output Impedance : 47kΩ//1000pF
- Output Power : VOL. Max.
- Balance, Fader Control : Center
- Bass, Treble Control : Center
- Middle Control : Center

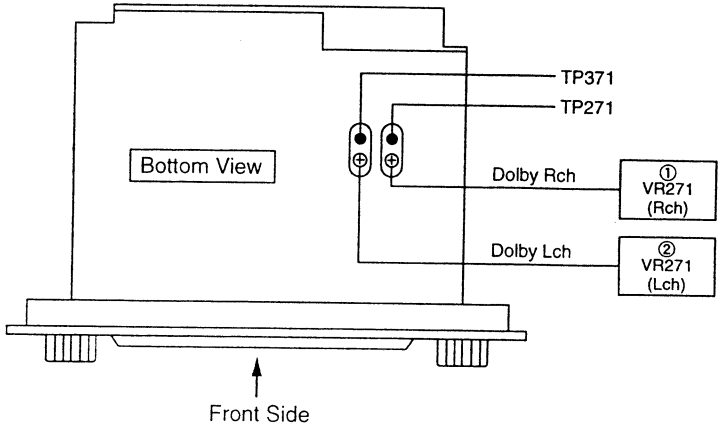
Note: Do not align the FM/AM package blocks. When the package block is necessary, it will be supplied already aligned at the factory.

1. DOLBY NR ALIGNMENT

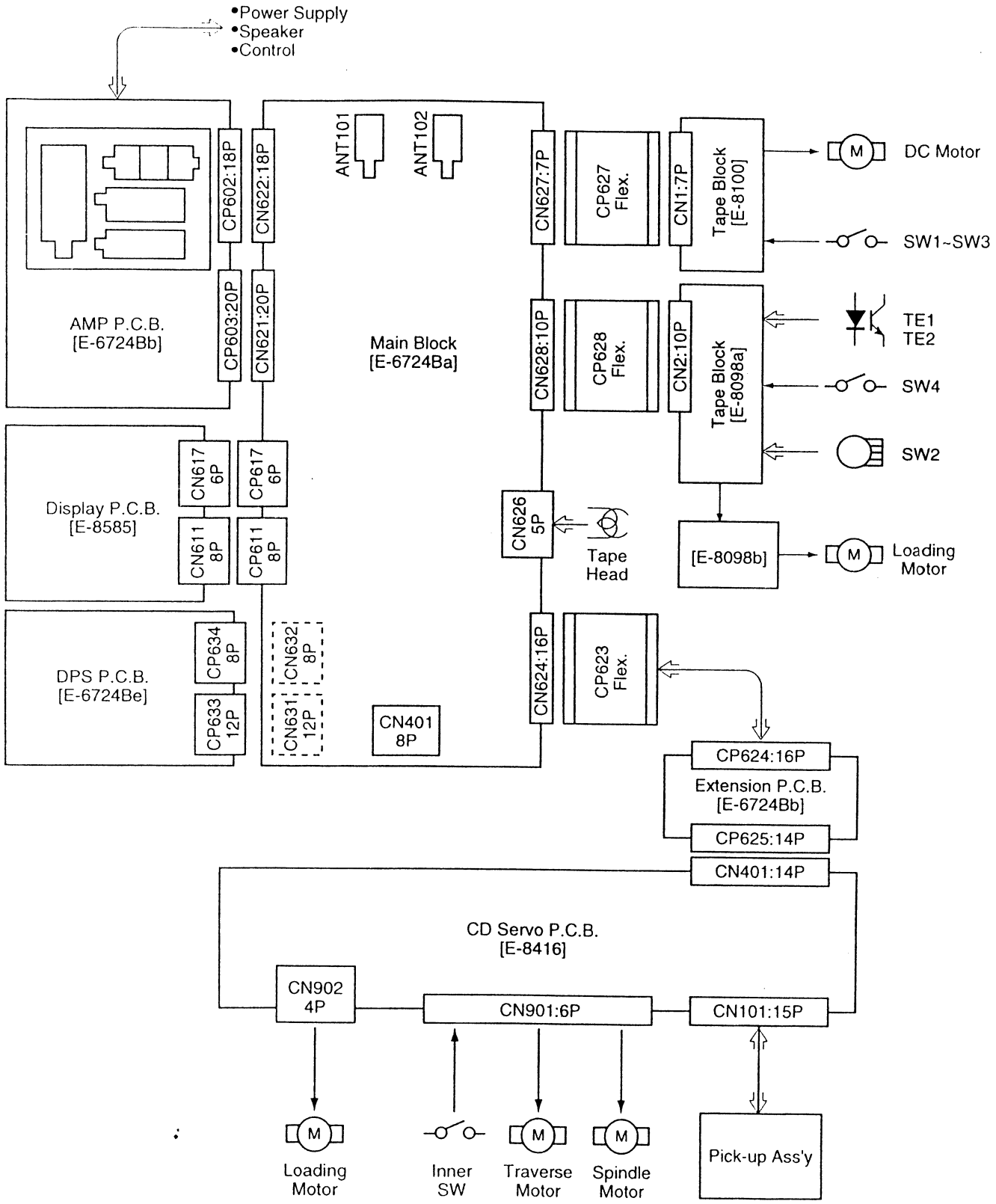
Step	Alignment Item	Test Tape	VTVM Connection	Adjust	Remarks
①	DOLBY NR Rch	RFKZ0038	TP271	VR271	• Adjust for 388mV ±0.5dB
②	DOLBY NR Lch	RFKZ0038	TP371	VR371	• Adjust for 388mV ±0.5dB

ALIGNMENT POINT

<CQ-LA1820/1821/1822L>



WIRING CONNECTION

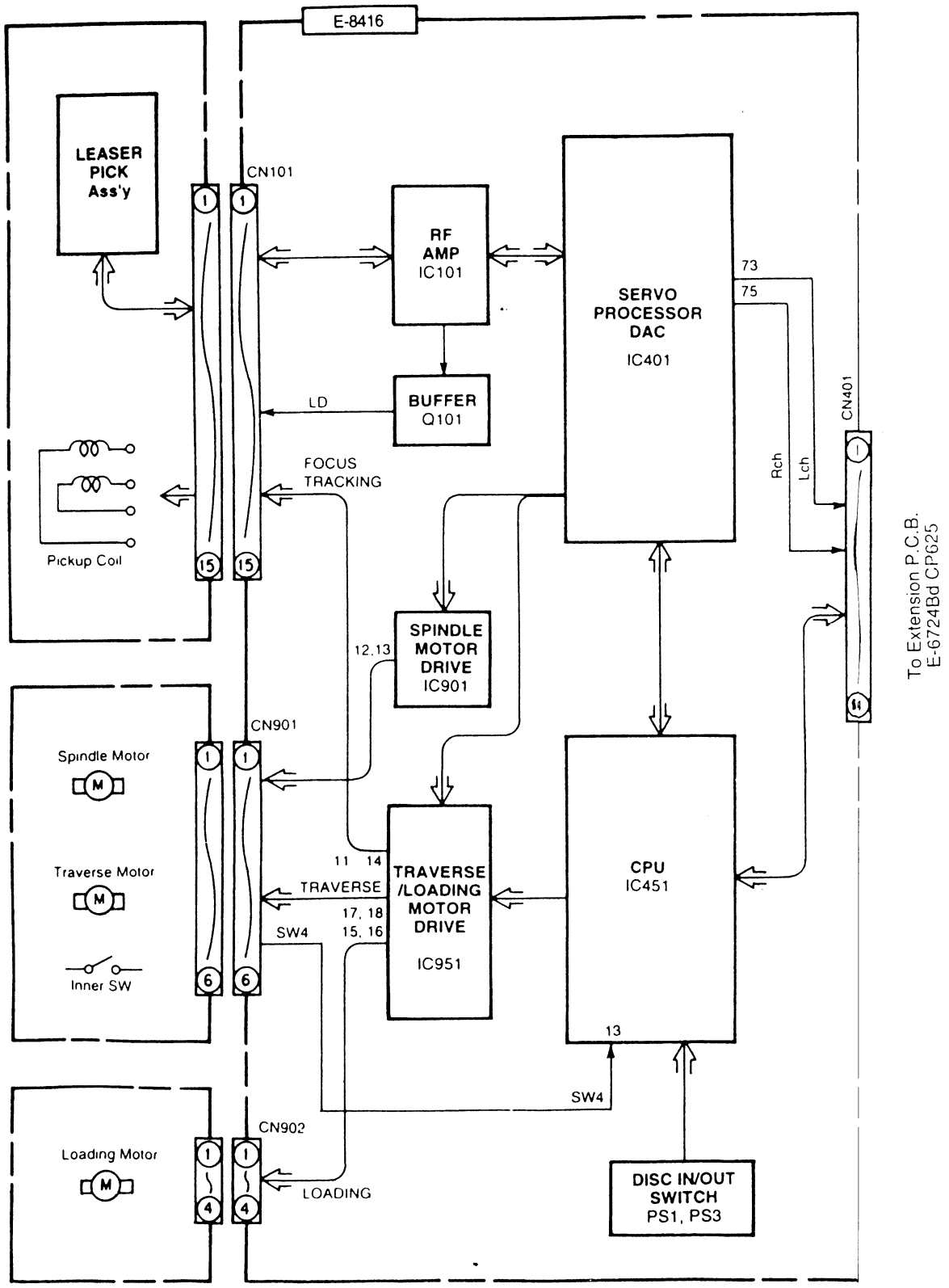


<Note> :

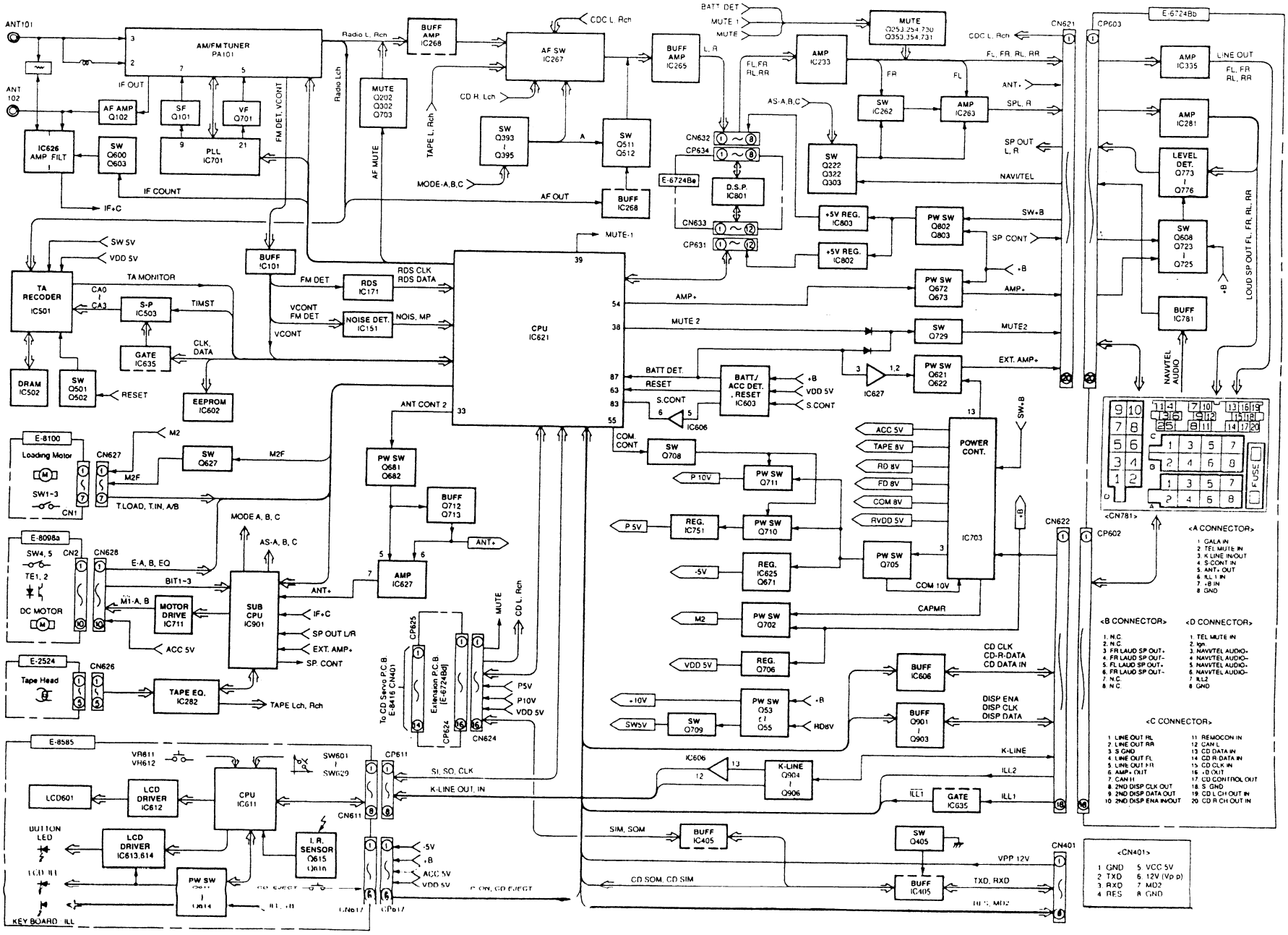
[ ] ·····This mark shows a Ref. No. of connector

[ ] ·····This mark shows a mounting position of connector.

BLOCK DIAGRAM (CD Servo Block) MODELS CQ-LA1820/1821/1822L

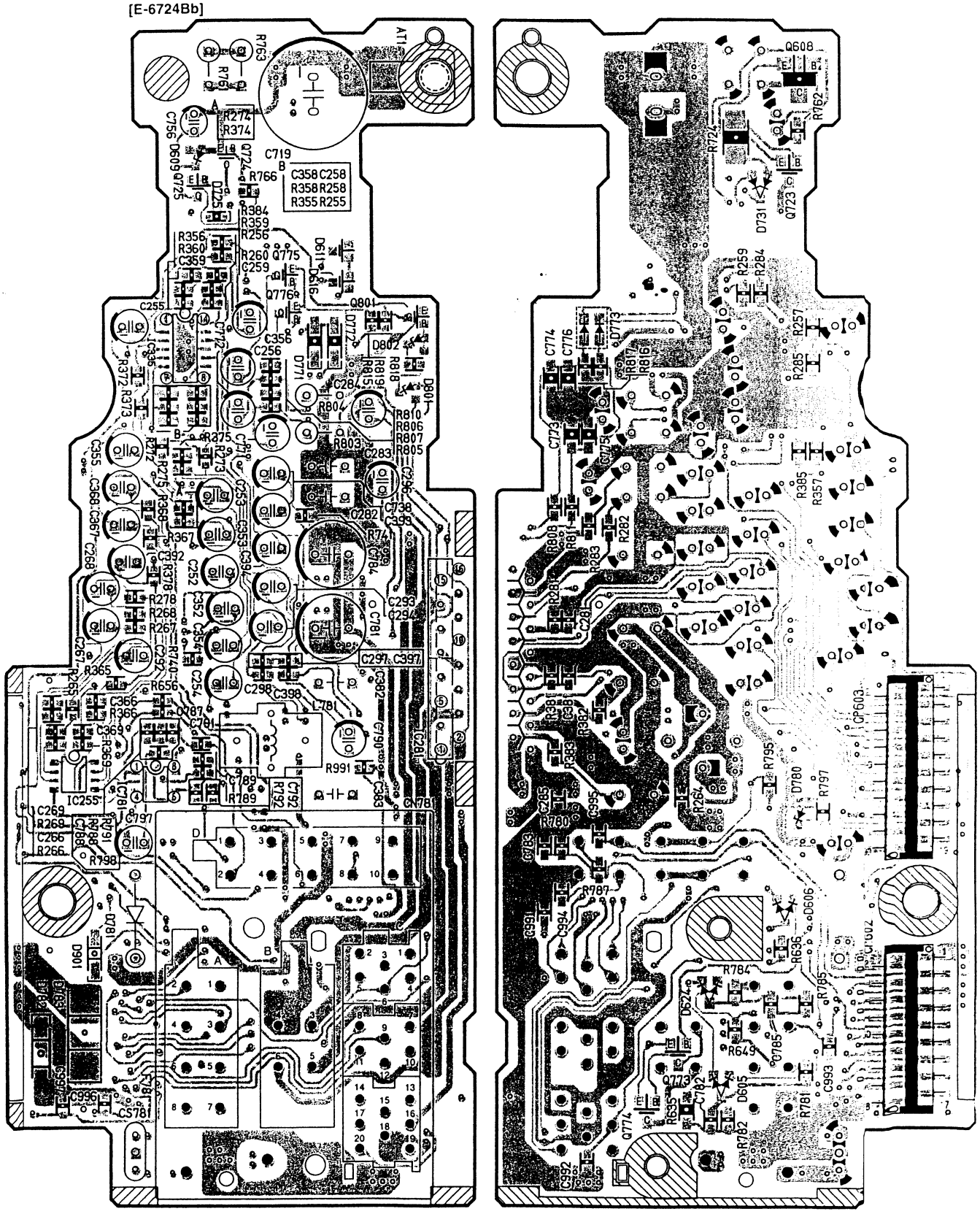


BLOCK DIAGRAM (Main/Amp./DSP/Display Block)
MODELS CQ-LA1820/1821/1822L



WIRING DIAGRAM (Amp. Block) MODELS CQ-LA1820/1821/1822L

[E-6724Bb]



<TOP VIEW>

<BOTTOM VIEW>

WIRING DIAGRAM (Main Block) MODELS CQ-LA1820/1821/1822L

[E-6724Ba]

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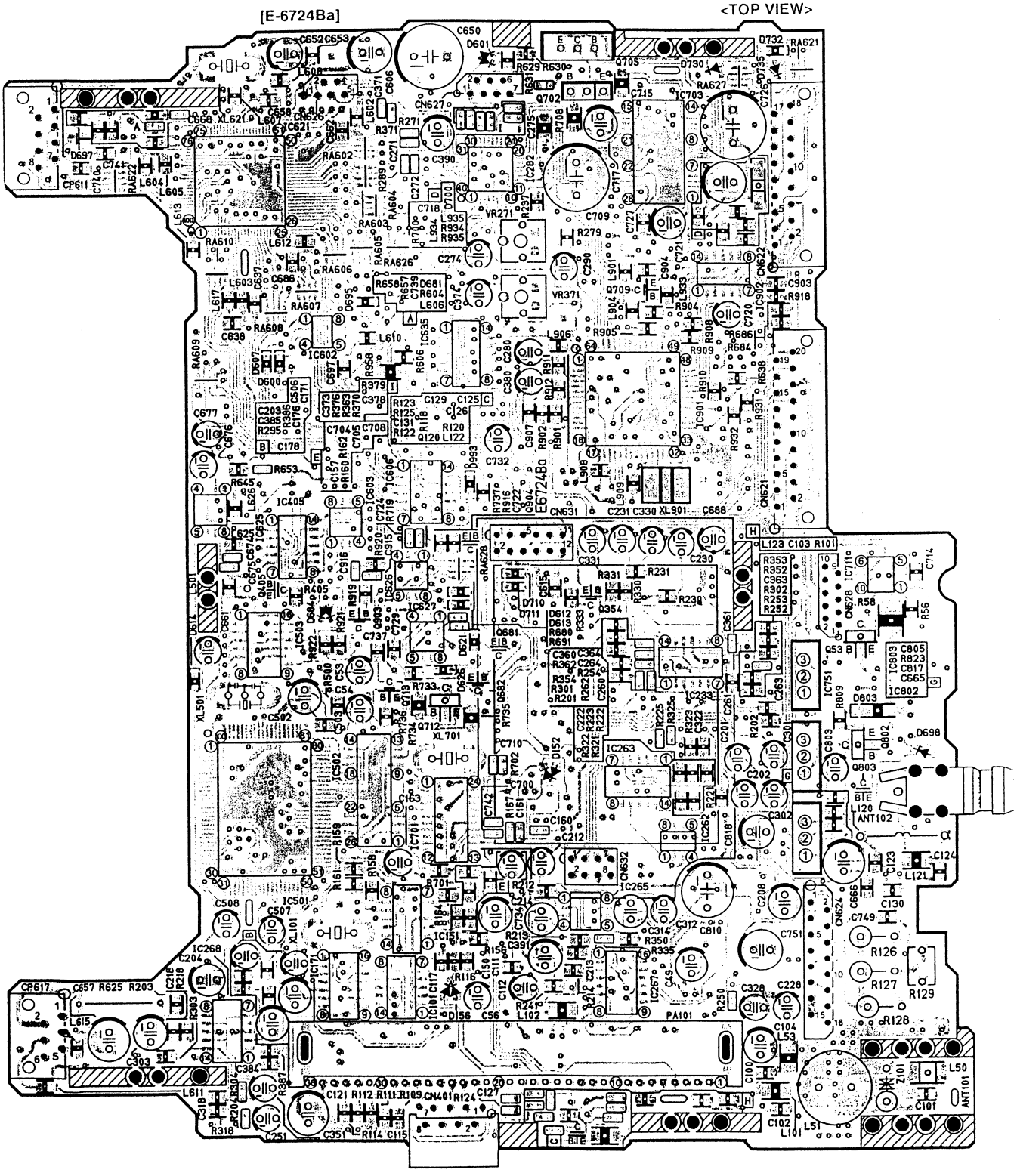

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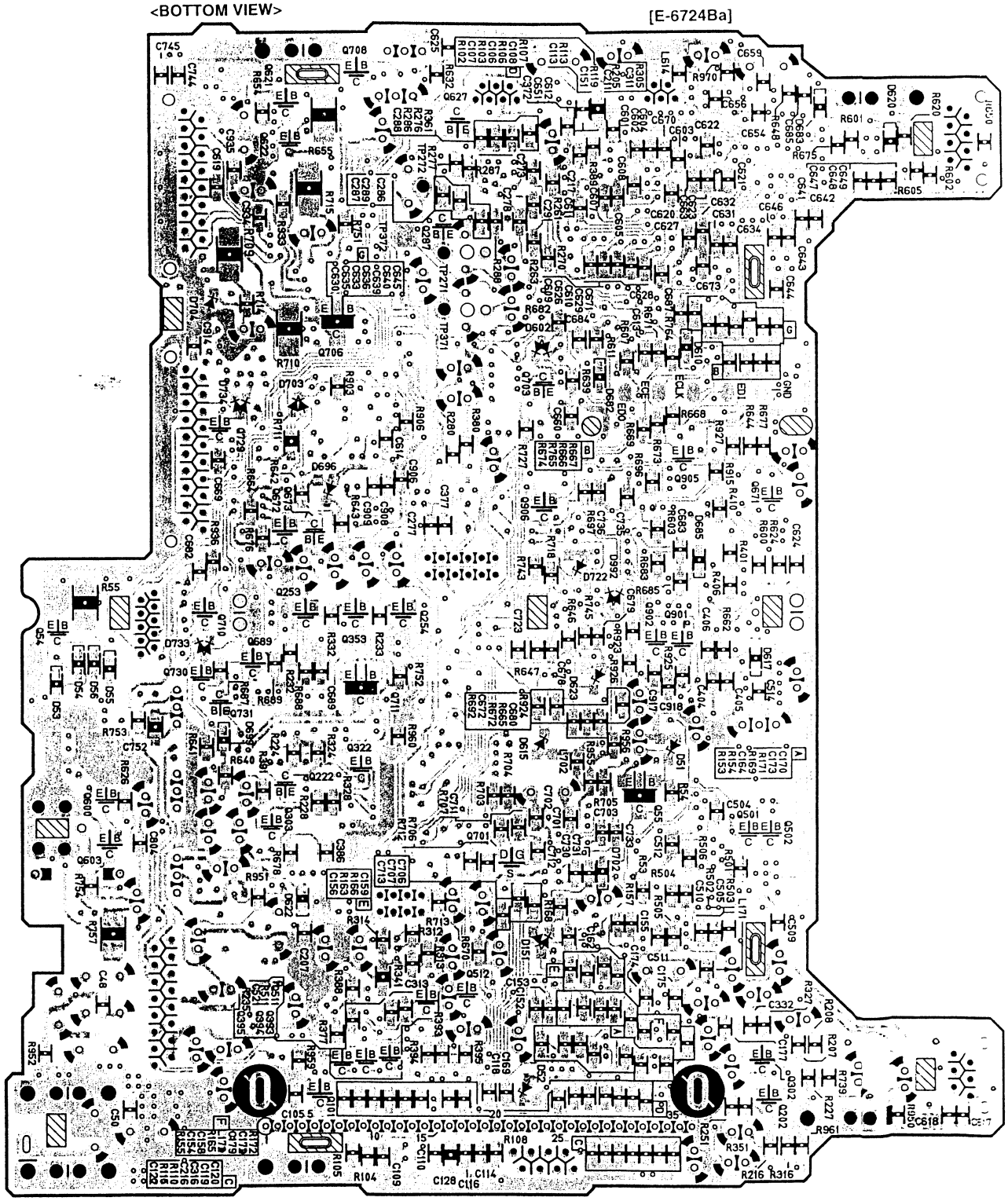
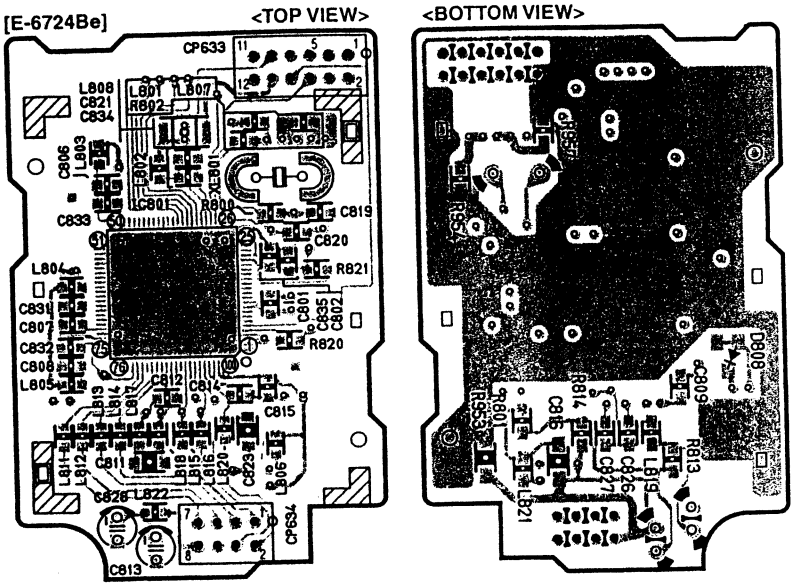
[E-6724Ba]



WIRING DIAGRAM (DSP/Connector Block) MODELS CQ-LA1820/1821/1822L

[E-6724Be]



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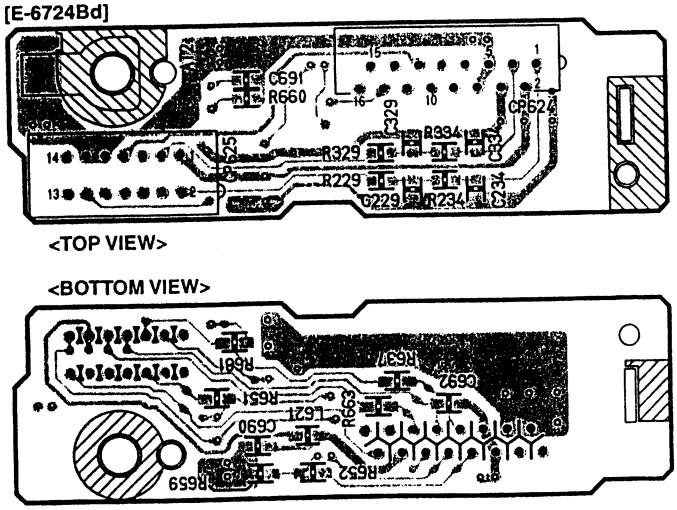

WIRING DIAGRAM (Display Block) MODELS CQ-LA1820/1821/1822L

[E-8585]

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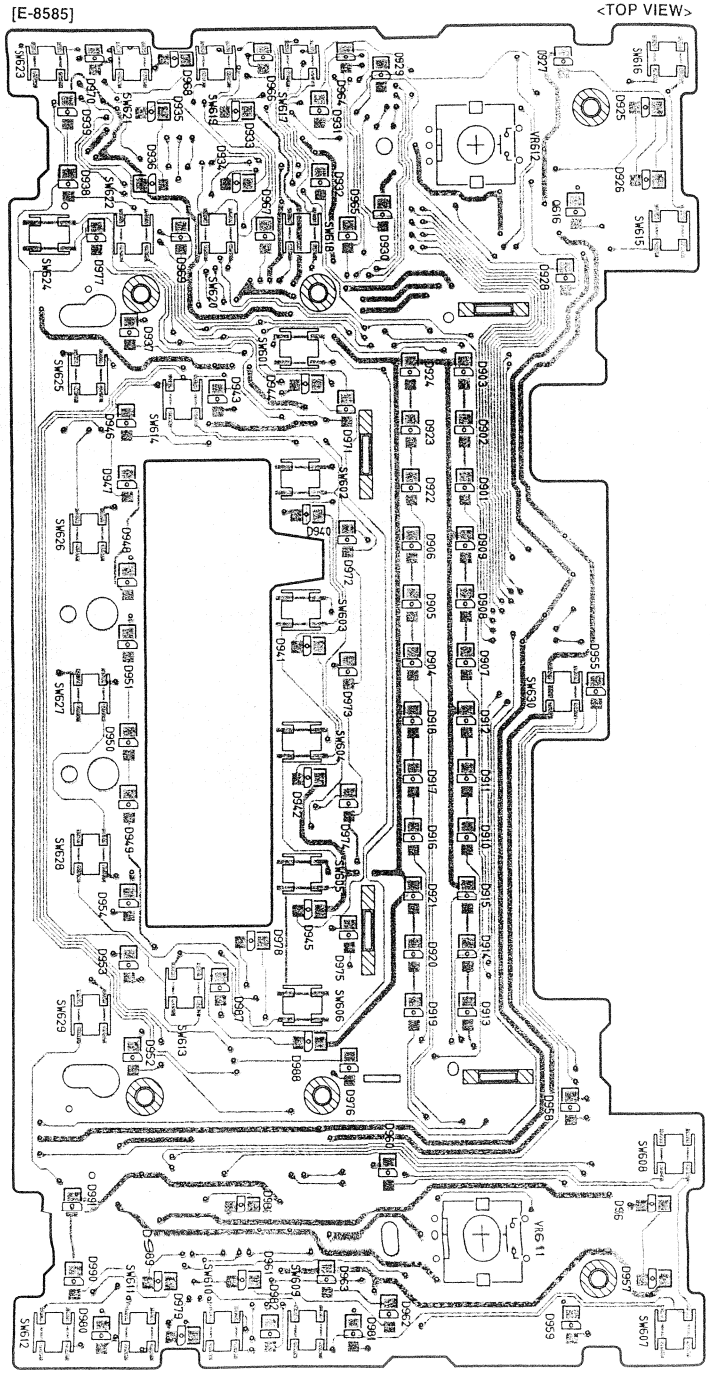

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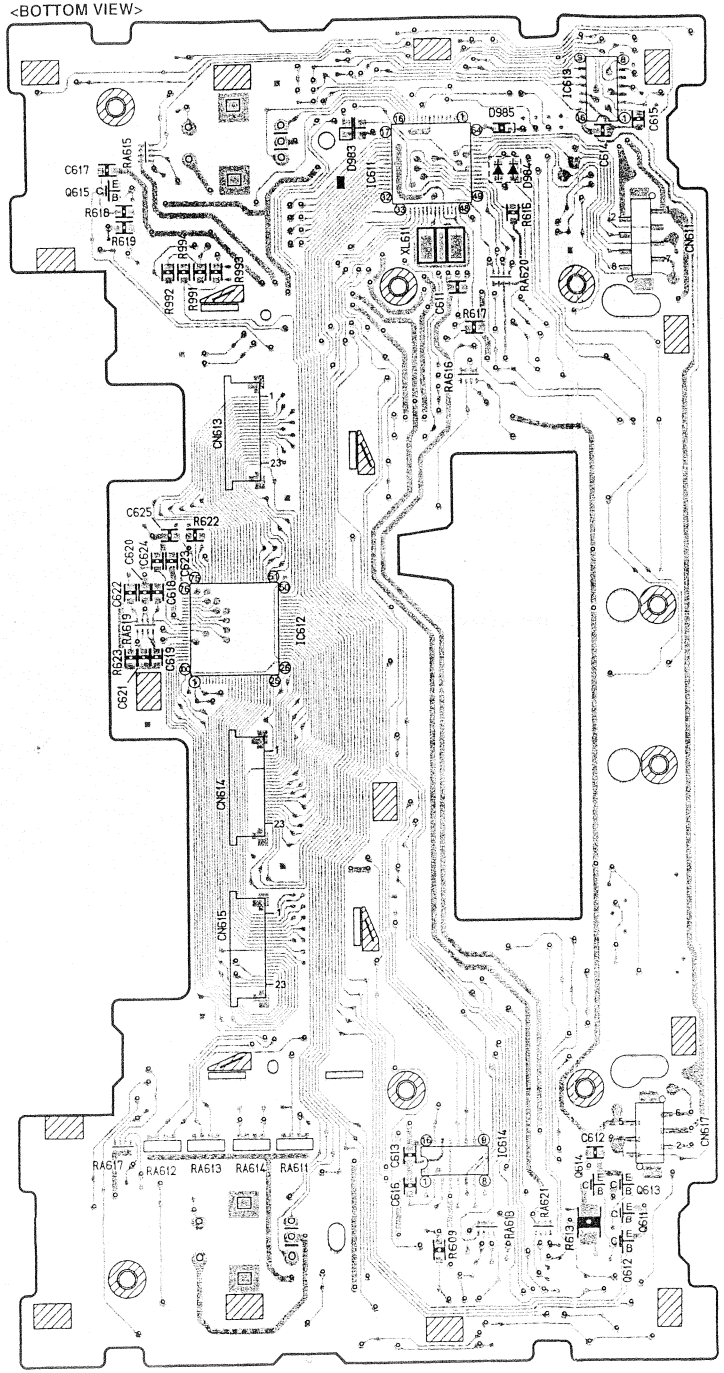
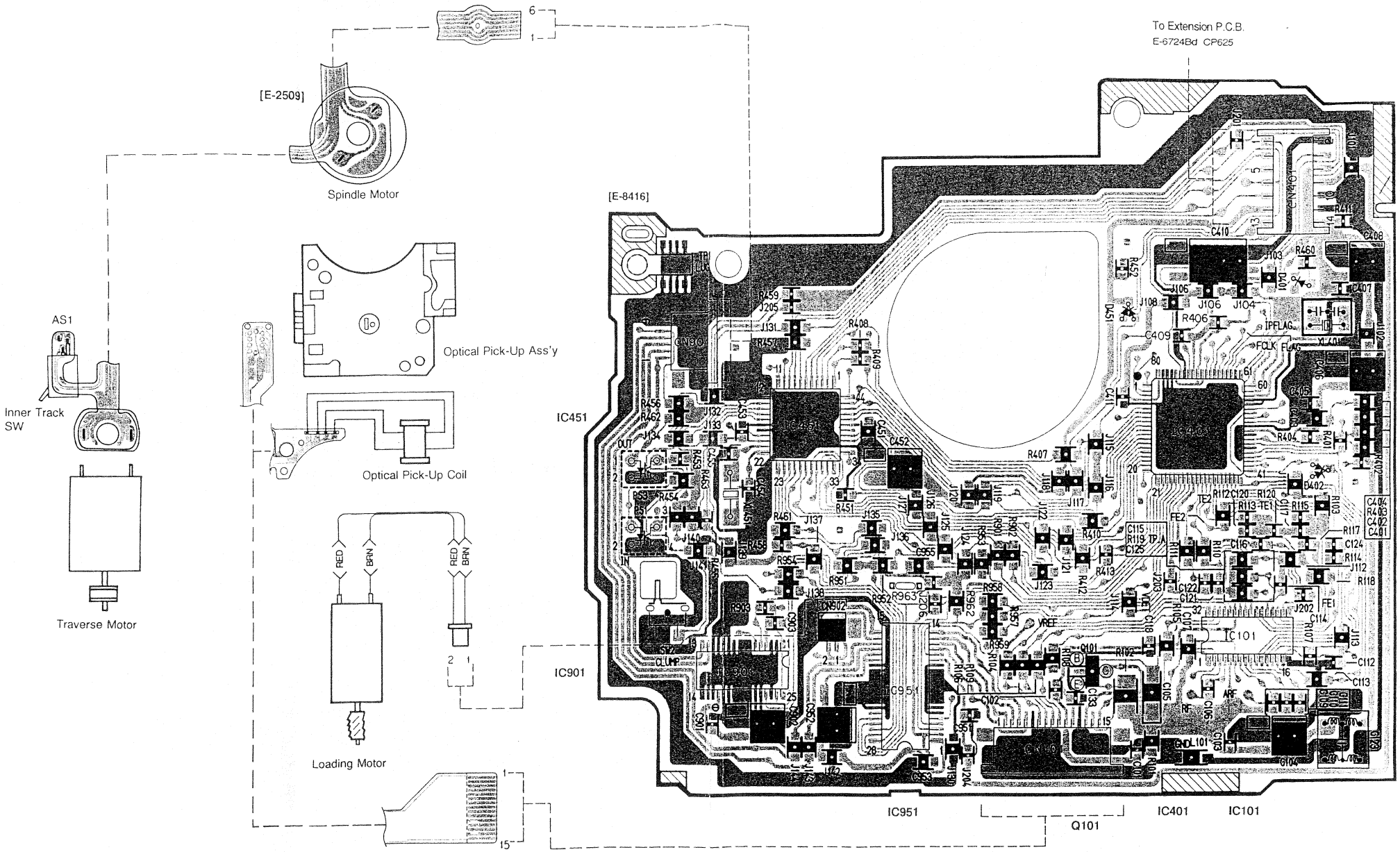
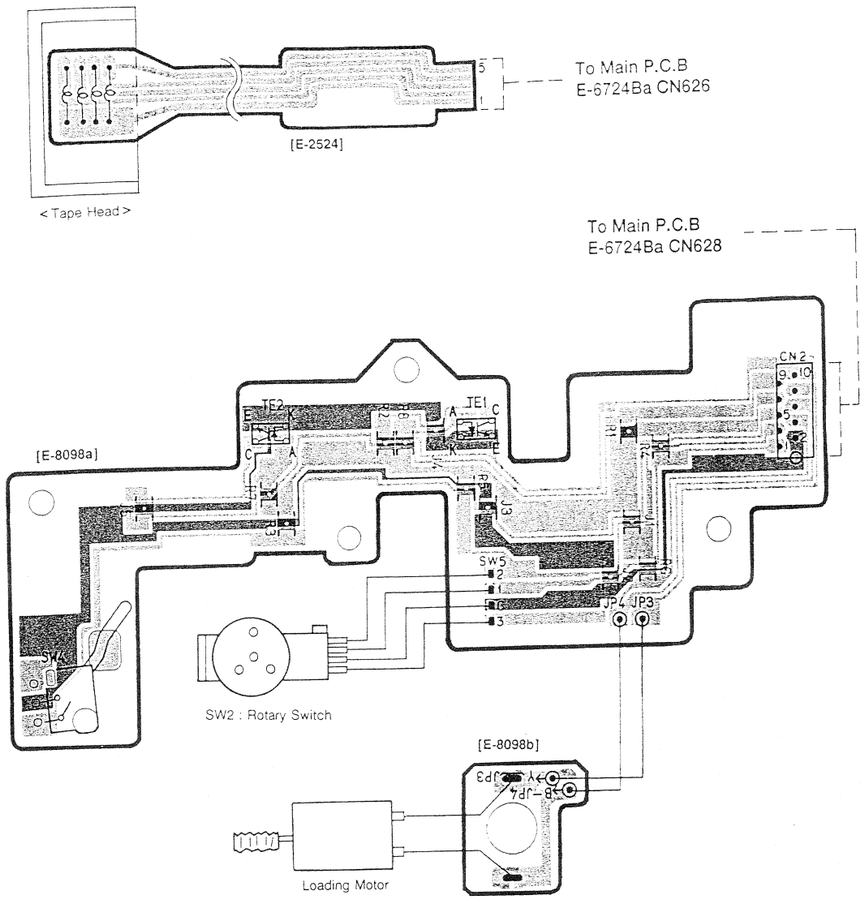
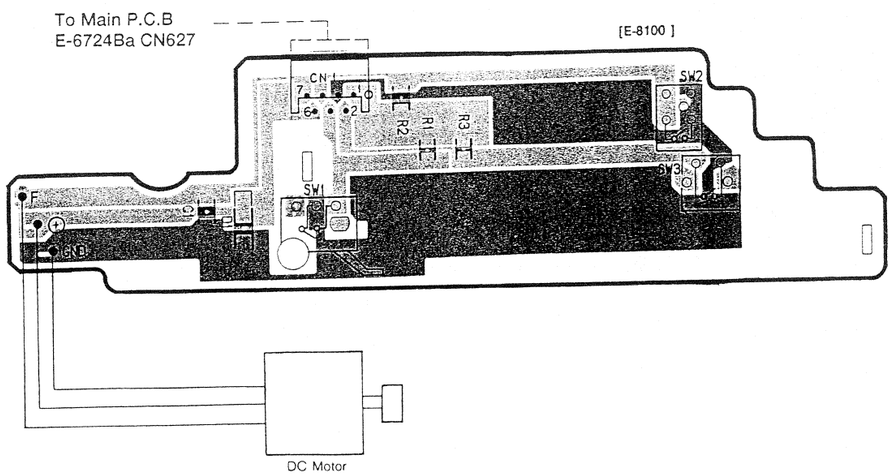


WIRING DIAGRAM (CD Servo Block) MODELS CQ-LA1820/1821/1822L

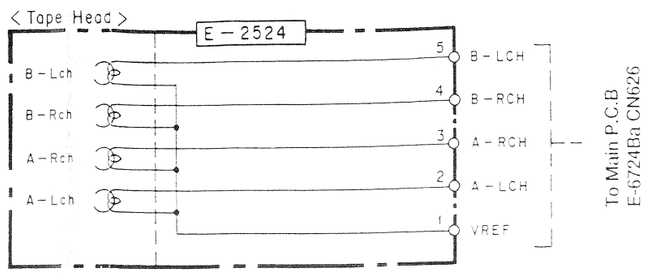


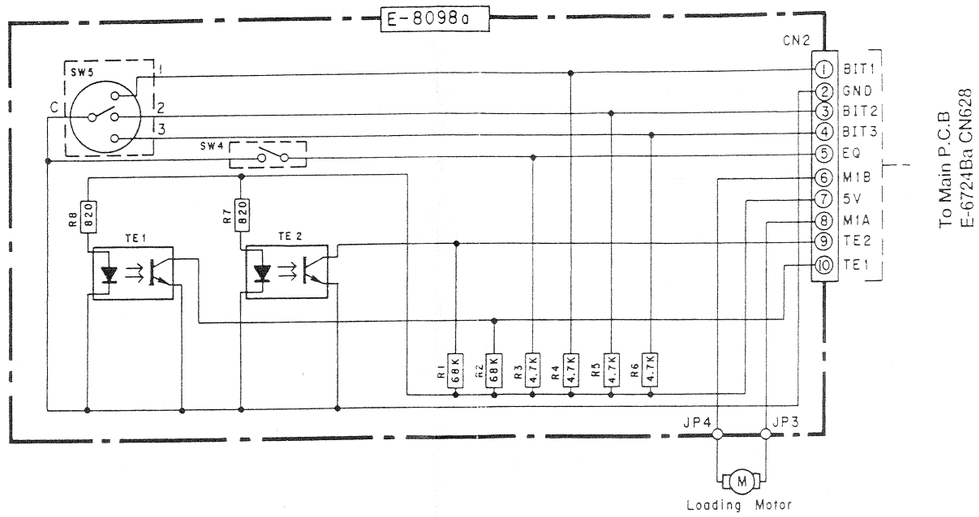
WIRING DIAGRAM (Tape Block) MODELS CQ-LA1820/1821/1822L

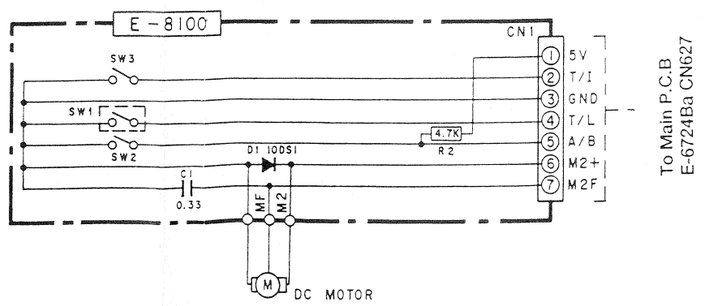




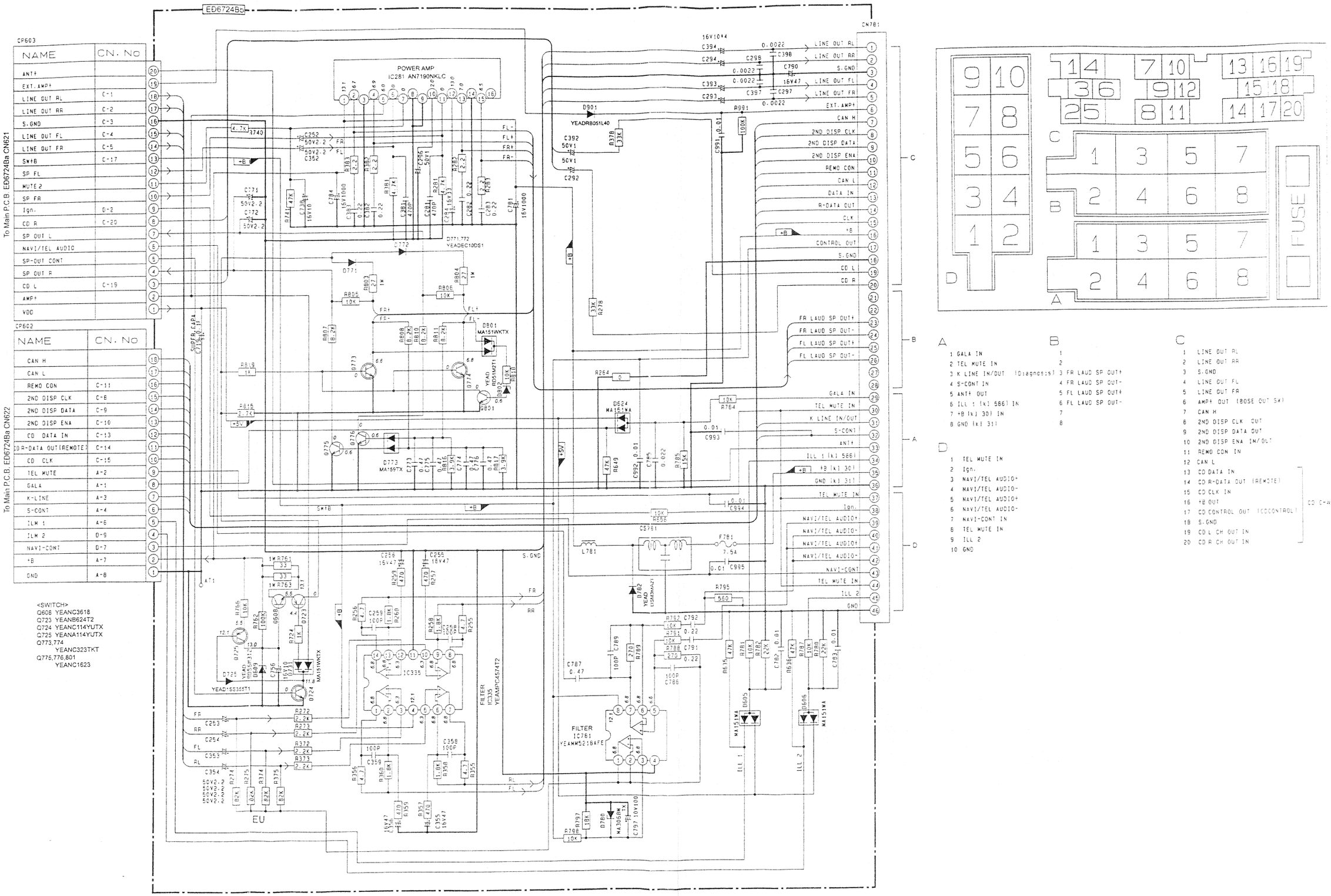
SCHEMATIC DIAGRAM (Tape Block) MODELS CQ-LA1820/1821/1822L







SCHEMATIC DIAGRAM (Amp. Block) MODELS CQ-LA1820/1821/1822L



A
1 GALA IN
2 TEL MUTE IN
3 K LINE IN/OUT (Diagnosis)
4 S-CONT IN
5 ANT+ OUT
6 ILL 1 (k) 586) IN
7 +B (k) 30) IN
8 GND (k) 31)

B
1
2
3 FR LAUD SP OUT+
4 FR LAUD SP OUT-
5 FL LAUD SP OUT+
6 FL LAUD SP OUT-
7
8

C
1 LINE OUT RL
2 LINE OUT RR
3 S.GND
4 LINE OUT FL
5 LINE OUT FR
6 AMP+ OUT (BOSE OUT SW)
7 CAN H
8 2ND DISP CLK OUT
9 2ND DISP DATA OUT
10 2ND DISP ENA IN/OUT
11 REMO CON IN
12 CAN L
13 CD DATA IN
14 CD R-DATA OUT (REMOTE)
15 CD CLK IN
16 +B OUT
17 CD CONTROL OUT (CDCONTROL)
18 S.GND
19 CD L CH OUT IN
20 CD R CH OUT IN

D
1 TEL MUTE IN
2 Ign.
3 NAVI/TEL AUDIO+
4 NAVI/TEL AUDIO-
5 NAVI/TEL AUDIO+
6 NAVI/TEL AUDIO-
7 NAVI-CONT IN
8 TEL MUTE IN
9 ILL 2
10 GND

SCHEMATIC DIAGRAM (DSP Block) MODELS CQ-LA1820/1821/1822L

E-6724Be

DSP
IC801
YEAMAK7712AF

To
Main P.C.B
E-6724Ba
CN632

To Main P.C.B
E-6724Ba CN631

5V P-P
5 ms,2V/DIV

5V P-P
0.5 ms,2V/DIV

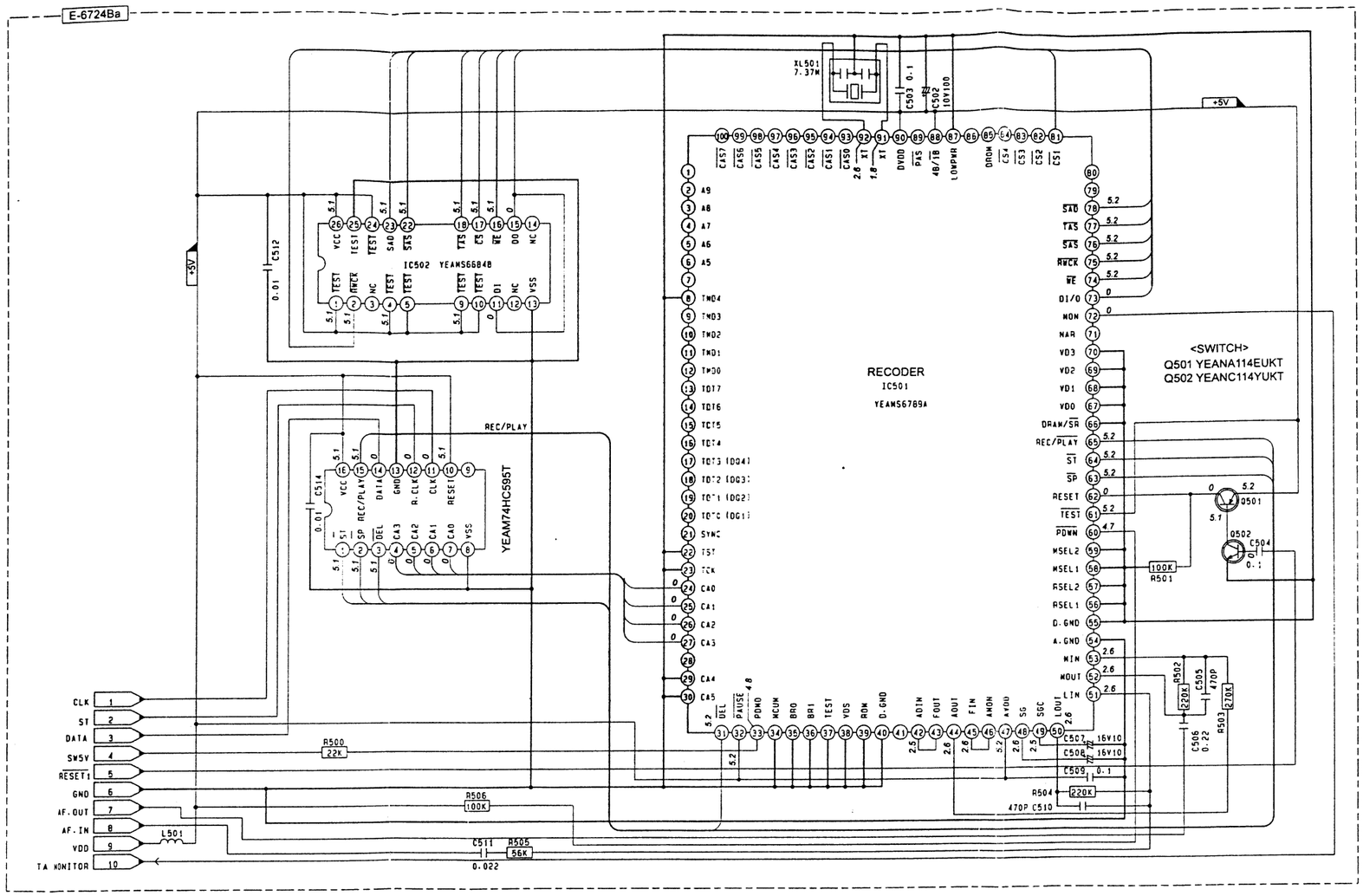
5V P-P
20µs, 2V/DIV

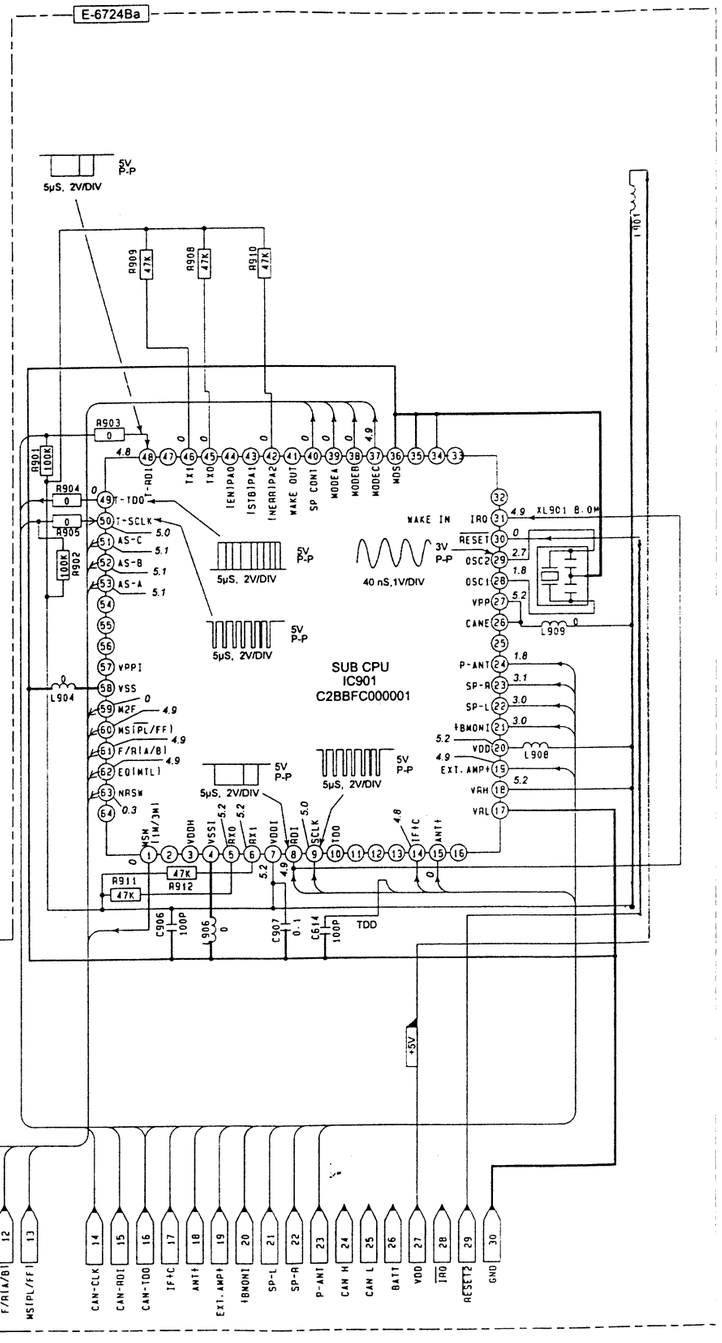
5V P-P
1ms,2V/DIV

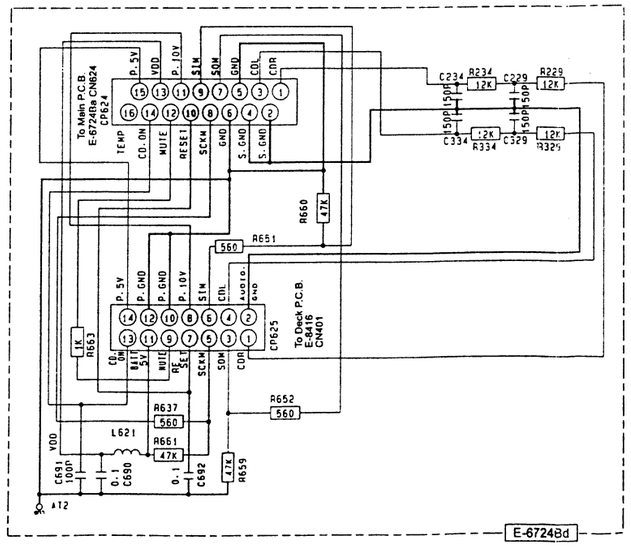
5V P-P
2ms,2V/DIV

3V P-P
20ns,1V/DIV

SCHEMATIC DIAGRAM (Main/Connector Block) MODELS CQ-LA1820/1821/1822L







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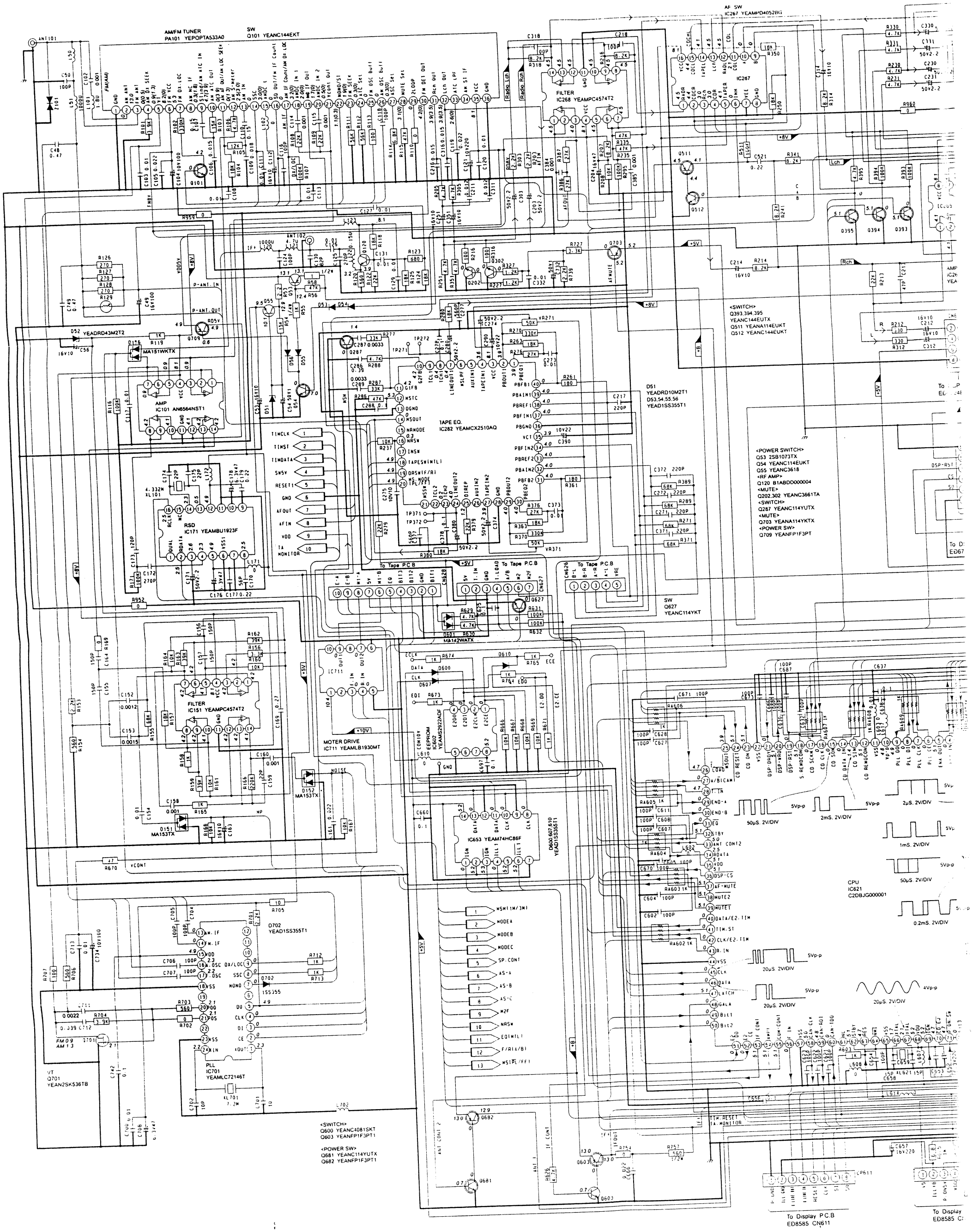
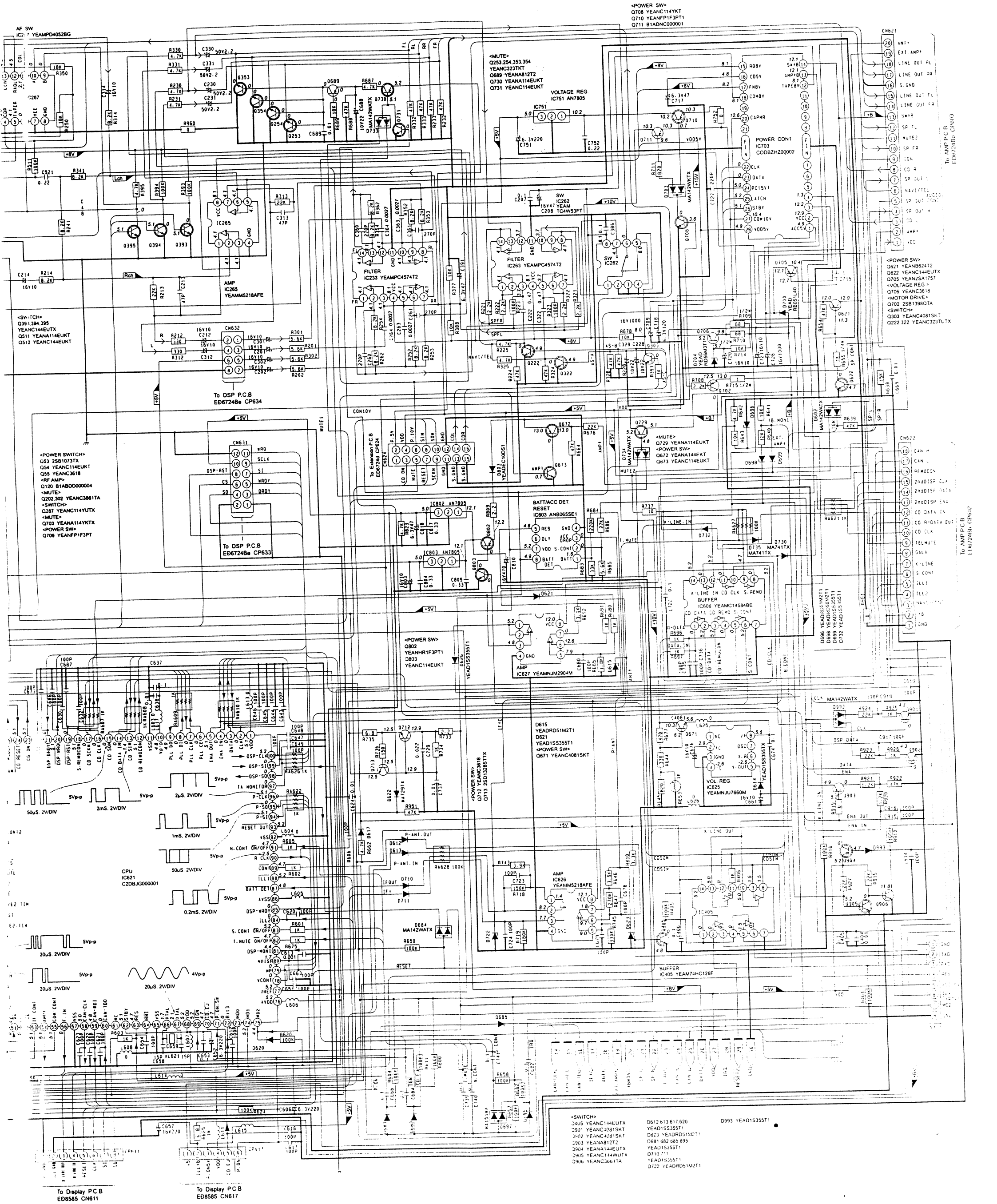
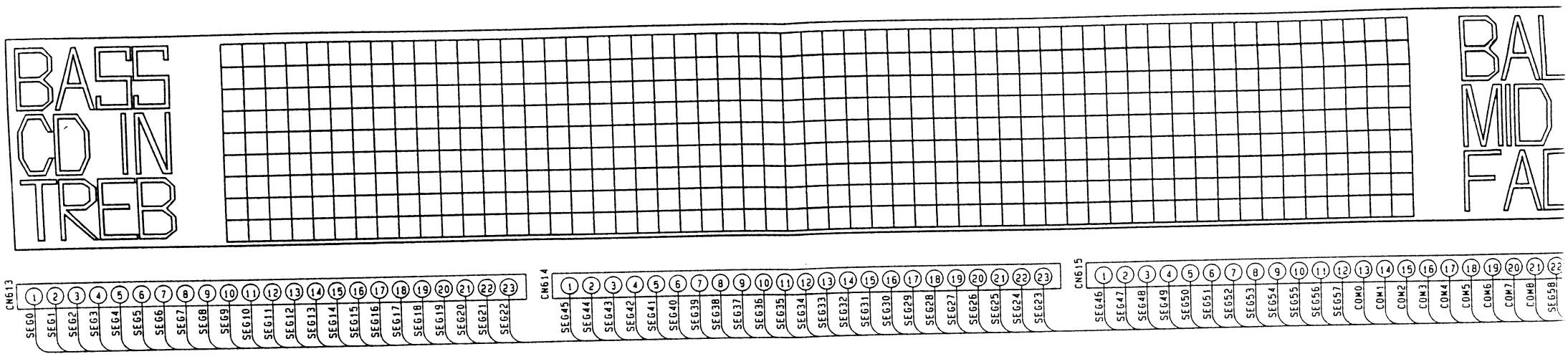



AF SW
IC267 YEAMPD4052BG
<POWER SW>
Q708 YEANC114YKT
Q710 YEANFP1F3PT1
Q711 B1ADNC000001
<MUTE>
Q253.254.353.354
YEANC323TKT
Q689 YEANA812T2
Q730 YEANA114EUKT
Q731 YEANC114EUKT
VOLTAGE REG.
IC751 AN7805
POWER CONT.
IC703
CODBZHZ00002
CN621
To AMP P.C.B
ED6724Bb CP603
<POWER SW>
Q621 YEANB624T2
Q622 YEANC144EUTX
Q705 YEAN2SA1757
<VOLTAGE REG.>
Q706 YEANC3618
<MOTOR DRIVE>
Q702 2SB1398QTA
<SWITCH>
Q303 YEANC4081SKT
Q222.322 YEANC323TUTX
AMP
IC265
YEAMM5218AFE
FILTER
IC233 YEAMPC4574T2
FILTER
IC263 YEAMPC4574T2
SW
IC262
SW
IC262 YEAM
IC208 TC4W53FT
<SWITCH>
Q393.394.395
YEANC144EUTX
Q511 YEANA114EUKT
Q512 YEANC144EUKT
CN632
To DSP P.C.B
ED6724Bb CP634
CN631
To DSP P.C.B
ED6724Bb CP633
<POWER SWITCH>
Q53 2SB1073TX
Q54 YEANC114EUKT
Q55 YEANC3618
<RF AMP>
Q120 B1ABDD000004
<MUTE>
Q202.302 YEANC3661TA
<SWITCH>
Q287 YEANC114YUTX
<MUTE>
Q703 YEANA114YKTX
<POWER SW>
Q709 YEANFP1F3PT
To Extension P.C.B
ED6724d CP624
<MUTE>
Q729 YEANA114EUKT
<POWER SW>
Q672 YEANA144EKT
Q673 YEANC114EUKT
BATT/ACC DET.
RESET
IC603 ANB065SE1
<POWER SW>
Q802
YEANHR1F3PT1
Q803
YEANC114EUKT
AMP
IC627 YEAMNJM2904M
BUFFER
IC606 YEAMC14584BE
<POWER SW>
Q712 YEANC3618
Q713 2SD1328STTX
D615
YEAORD51M2T1
D621
YEAD1SS355T1
<POWER SW>
Q671 YEANC4081SKT
VOL REG
IC625
YEAMNJU7660M
AMP
IC626
YEAMM5218AFE
BUFFER
IC405 YEAM74HC126F
CPU
IC621
C2DBJG000001
To Display P.C.B
ED8585 CN611
To Display P.C.B
ED8585 CN617
<SWITCH>
Q405 YEANC144EUTX
Q901 YEANC4081SKT
Q902 YEANC4081SKT
Q903 YEANA812T2
Q904 YEANA144EUTX
Q905 YEANC114WUTX
Q906 YEANC3661TA
D612.613.617.620
YEAD1SS355T1
D623 YEADRD51M2T1
D681.682.685.695
YEAD1S355T1
D710.711
YEAD1S355T1
D722 YEADRD51M2T1
D993 YEAD1S355T1

SCHEMATIC DIAGRAM (Display Block) MODELS CQ-LA1820/1821/1822L


BASS
CD IN
TREB
BAL
MID
FAD
CN613
SEG0 SEG1 SEG2 SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16 SEG17 SEG18 SEG19 SEG20 SEG21 SEG22
CN614
SEG45 SEG44 SEG43 SEG42 SEG41 SEG40 SEG39 SEG38 SEG37 SEG36 SEG35 SEG34 SEG33 SEG32 SEG31 SEG30 SEG29 SEG28 SEG27 SEG26 SEG25 SEG24 SEG23
CN615
SEG46 SEG47 SEG48 SEG49 SEG50 SEG51 SEG52 SEG53 SEG54 SEG55 SEG56 SEG57 COM0 COM1 COM2 COM3 COM4 COM5 COM6 COM7 COM8 SEG58

D964 ~ D982 YEADLST676T

D964 CD
D965 COC
D966 AM1
D967 AM2
D968 FM1
D969 FM2
D970 PLAY
D971 P1
D972 P2
D973 P3
D974 P4
D975 P5
D976 P6
D977 REV
D978 Dolby
D979 RBDS
D980 RANDOM
D981 SCAN
D982 P.SCAN
R609 6.8K
6.8K 1/16W
Q616 YEANSFH320T
PHOTO SENSOR
R619 10K
R618 1M
Q615 YEANC1623
C617 0.33

C614 0.1
C613 0.1

DATA LATCH
IC613 YEAMBA823F

DATA LATCH
IC614 YEAMBA823F

VCC DATA P.GND GND Q0 Q1 Q2 Q3
R.CLK CLK DO GND O7 O6 O5 O4

PRESET1 SW601
PRESET2 SW602
PRESET3 SW603
PRESET4 SW604
PRESET5 SW605
PRESET6 SW606
FF SW607
FR SW608
SCAN (AS) SW609
P.SCAN (TPI) SW610
RBDS (RDS) SW611
RANDOM SW612
Dolby SW613
T.EJECT SW614
TR.UP SW615
TR.DOWN SW616
CD SW617
COC SW618
AM1 SW619
AM2 SW620
FM1 SW621
FM2 SW622
T.PLAY SW623
REV SW624
BASS SW625
MID SW626
TRE SW627
BAL SW628
FAD SW629
D983 MA159TX
D984 MA159TX
D985 YEAD1SS355T1

LCD. ILL
1/8W RA611 680
1/8W RA612 680
1/8W RA613 680
1/8W RA614 680
D901 D902 D903
D904 D905 D906
D907 D908 D909
D910 D911 D912
D913 D914 D915
D916 D917 D918
D919 D920 D921
D922 D923 D924

1/16W RA615 1K
1/16W RA616 1K
1/16W RA617 1K
1/16W RA621 1K
D925 D926 D927 D928 D929 D930 D931 D932 D933 D934 D935 D936 D937 D938 D939 D940 D941 D942 D943 D944 D945 D946 D947 D948 D949 D950 D951 D952 D953 D954 D955 D956 D957 D958 D959 D960 D961 D962 D963 D986 D987 D988 D989 D990 D991

KEYBOARD. ILL
R613 27
Q614 Q613 Q612 Q611

<Power SW>
Q611,612 YEANC114YKT
Q613,614 YEANFP1F3PT1

D901 ~ D924 YEADLST676T

D925 ~ D963, D986 ~ D991 YEADLST676T

LCD601

BAL
MID
FAD

LCD DRIVER
IC612
YEAMNJU6450G

10Vp-p
2mS, 2V/DIV

5Vp-p
5μS, 2V/DIV

10Vp-p
2mS, 2V/DIV

5Vp-p
10μS, 2V/DIV

5Vp-p
0.1mS, 2V/DIV

5Vp-p
50μS, 2V/DIV

5Vp-p
20μS, 2V/DIV

5Vp-p
5μS, 2V/DIV

5Vp-p
1mS, 2V/DIV

5Vp-p
2μS, 2V/DIV

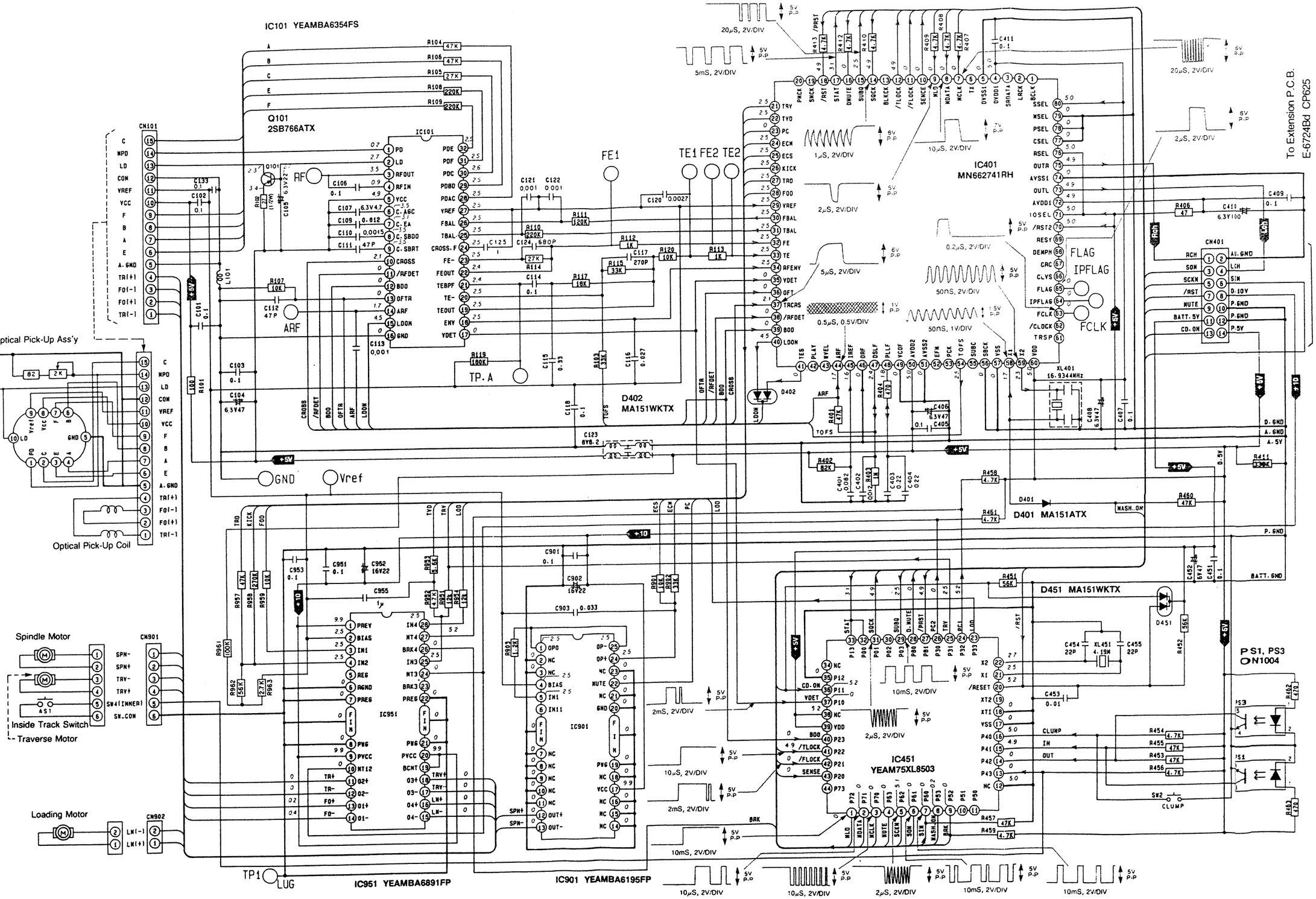
LCD,KEY CONT.
IC611
C2BBFE000047

<Power SW>
Q611,612 YEANC114YKT
Q613,614 YEANFP1F3PT1

To Main P.C.B
CD6724B CP611

To Main P.C.B
CD6724B CP617

SCHEMATIC DIAGRAM (CD Servo Block) MODELS CQ-LA1820/1821/1822L



TERMINALS DESCRIPTION

<Main Block>

■ IC621 C2DBJG000001

Pin No.	Port	Description	I/O	Vol.(V)
1	VDD	+5V power supply	—	5.1
2	CLK	Clock for the second display	O	0
3	DATA	Data for the second display	O	0
4	ENA IN	Enable for the second display	I	0
5	ENA OUT	Enable for the second display	O	5.1
6	PLL CE	PLL chip enable	O	0
7	PLL CLK	PLL clock	O	0
8	PLL DI	PLL data	O	0
9	PLL DO	PLL data	I	4.9
10	VP-P	+12V power supply for data write	—	4.8
11	VSS	Ground	—	0
12	CD REMO	CD CH remocon data	O	5.1
13	CD SIM	CD serial data	O	1.4
14	CD DATA	CD CH data	I	0
15	CD SOM	CD serial data	I	0
16	CD CLK	CD CH clock	I	0
17	CD SCKM	CD serial clock	I	0
18	S.REMO	Remocon data	I	5.1
19	/DSP-RST	DSP reset	O	0
20	/DSP-WRQ	DSP data write request	O	5.1
21	DSP-DRDY	DSP read ready	I	0
22	VSS	Ground	—	0
23	CD ON	CD controller enable	O	5.1
24	/CD RST	CD reset	O	5.1
25	/MS OUT	Tape MS detection	I	3.9
26	/LOAD	Tape loading	I	4.7
27	A/B	Tape side detection	I	0
28	/T.IN	Tape insert detection	I	4.7
29	END-A	Tape end detection	I	0
30	END-B	Tape end detection	I	0
31	/EQ	Metal tape detection	I	0
32	STBY	Power control IC standby	O	5.1
33	ANT CNT2	Motor antenna control	O	5.0
34	R DATA	RDS data	I	2.5
35	VDD	+5V power supply	—	5.1
36	/DSP-CS	DSC chip select	O	5.1
37	/AF-MUTE	Audio mute control	O	5.1
38	/MUTE2	Mute control	O	5.1
39	/MUTE1	Mute control	O	5.1
40	DATA	EEPROM/TIM data	O	0
41	TIM.ST	TIM strobe	O	0
42	CLK	EEPROM/TIM clock	O	0
43	R.IN	Tape loading motor control	O	0
44	VSS	Ground	—	0
45	CLK	Clock for power control IC	O	0
46	DATA	Data for power control IC	O	0
47	LATCH	Data latch	O	5.1
48	GALA	GALA input	I	0
49	Bit 1	Tape mode SW	I	0
50	Bit 2	Tape mode SW	I	0

Pin No.	Port	Description	I/O	Vol.(V)
51	E2 DO	Security EEPROM data	I	0
52	E2 CE	Security EEPROM enable	O	0
53	IF CONT	IF counter	O	5.1
54	AMP+	Ext. Amp. control	O	5.1
55	COM-CNT	+10V power switch	O	5.1
56	F.IN	Tape loading motor control	O	0
57	VSS	Ground	—	0
58	CAN-CLK	CAN BUS clock	O	5.0
59	CAN-RDI	CAN BUS data	O	4.8
60	CAN-TDO	CAN BUS data	I	0
61	NC	No connector	—	—
62	STBY	(Connecting to VDD)	—	5.1
63	RES	Reset	I	4.7
64	/MNI	(Connecting to VDD)	—	5.1
65	VSS	Ground	—	0
66	XTAL	Crystal oscillator	—	1.7
67	XTAL	Crystal oscillator	—	2.1
68	VDD	+5V power supply	—	5.2
69	/IGN	IGN signal input	I	5.2
70	/CD.EJ	CD eject SW	I	4.7
71	/P.ON.SW	Power on SW	I	4.7
72	Bit 3	Tape mode SW	I	0
73	MDO	(Connecting to VDD)	—	5.2
74	MD1	(Connecting to VDD)	—	5.2
75	MD2	MPU mode setting	I	4.4
76	AVDD	+5V power supply	—	5.2
77	VREF	+5V power supply	—	5.2
78	VCONT	AM/FM level detection	I	0
79	MP	Multi-path detection	I	0
80	NOISE	FM noise level detection	I	1.7
81	DSP-MONI	(+5V pull-up)	I	4.4
82	T.MUTE	Telephone mute	I	4.7
83	S.CONT	Key status signal	I	5.2
84	ILL2	Illumination signal	I	0
85	DSP-WRDY	DSP write ready	I	0
86	AVSS	Ground	—	0
87	/BAT DET	Battery level detection	I	4.8
88	/ILL1	Illumination signal	I	5.2
89	/CONT	Control signal detection	I	4.7
90	R CLK	Clock for RDS data	I	2.5
91	N. CONT	Navi control	I	4.7
92	VSS	Ground	—	0
93	/RESET	Reset output	O	5.2
94	P-SI	Serial data for panel	O	5.1
95	P-SO	Serial data for panel	I	0
96	P-CLK	Clock for panel	O	5.1
97	TA MONI	TA monitor	I	0
98	DSP-SO	DSP serial data	I	0
99	DSP-SI	DSP serial data	O	0
100	DSP-CLK	DSP serial clock	O	5.2

<Main Block>

■ IC901 C2BBFC000001

Pin No.	Port	Description	I/O	Vol.(V)
1	MSM	MS gain control	O	0
2,3	—	No connection	—	—
4	VSSI	Ground	—	0
5	RX0	(+5V pull-up)	—	5.2
6	RX1	(+5V pull-up)	—	5.2
7	VDDI	+5V power supply	—	5.2
8	RDI	CAN-BUS data	I	4.9
9	SCLK	CAN-BUS clock	I	5.0
10–13	—	No connection	—	—
14	IF+C	IF count	I	4.8
15	ANT+	Motor antenna control	I	0
16	—	No connection	—	—
17	VRL	(Connecting to ground)	—	0
18	VRH	(Connecting to VDD)	—	5.2
19	AMP+	Ext. Amp power	I	4.9
20	VDD	+5V power supply	—	5.2
21	+BMONI	+B monitor	I	3.0
22	SP-L	SP Lch level detection	I	3.0
23	SP-R	SP Rch level detection	I	3.1
24	P-ANT	Antenna short detection	I	1.8
25	—	No connection	—	—
26	CANE	(Connecting to VDD)	—	5.2
27	VPP	(Connecting to VDD)	—	5.2
28	OSC1	Crystal oscillator	—	1.8
29	OSC2	Crystal oscillator	—	2.7
30	/RESET	Reset input	I	0
31	IRQ	(CAN-BUS data)	I	4.9
32,33	—	No connection	—	—
34–36	—	(Connecting to ground)	—	0
37	MODE C	Audio mode selection	O	4.9
38	MODE B	Audio mode selection	O	0
39	MODE A	Audio mode selection	O	0
40	SP CONT	Speaker control	O	0
41	WAKE OUT	Not used	—	—
42	PA2	Not used	—	0
43,44	—	Not used	—	—
45	TX0	Not used	—	0
46	TX1	Not used	—	0
47	—	No connection	—	—
48	T-RDI	CAN-BUS data	I	4.8
49	T-TDO	CAN-BUS data	O	0
50	T-SCLK	CAN-BUS clock	I	5.0
51	AS-C	Speaker out mute	O	5.1
52	AS-B	Speaker out mute	O	5.1
53	AS-A	Speaker out mute	O	5.1
54–57	—	No connection	—	—
58	VSS	Ground	—	0
59	M2F	Tape main motor control	O	0
60	MS	Tape MS mode control	O	4.9
61	F/R	Tape F/R control	O	4.9
62	EQ	Metal tape select	O	4.9
63	NRSW	Dolby mode selection	O	0.3
64	—	No connection	—	—

<DSP Block>

■ IC801 YEAMAK7712AF

Pin No.	Port	Description	I/O	Vol.(V)
1	TSTI	Not used	—	—
2–4	—	(Connecting to ground)	—	0
5	/PD	(Connecting to VDD)	—	5.0
6	/RST	Reset input	I	0
7–9	—	Not used	—	—
10,11	DVB	+5V power supply	—	5.0
12–19	—	Not used	—	—
20	SMODE	(Connecting to VDD)	—	5.0
21–23	—	Not used	—	—
24	DVDD	+5V power supply	—	5.0
25	DVSS	Ground	—	0
26	XTI	Crystal oscillator	—	2.6
27	XTO	Crystal oscillator	—	2.4
28	TSTI2	(Connecting to VDD)	—	5.0
29	/CS	DSP chip select	I	5.2
30	/WRQ	DSP data write request	I	5.2
31	DVSS	Ground	—	0
32	DVDD	+5V power supply	—	5.0
33	SCLK	DSP clock	I	5.2
34	SI	DSP serial data	I	0
35	WRDY	DSP write ready	O	0
36	DRDY	DSP write ready	O	0
37	SO	DSP serial data	O	0
38–48	—	Not used	—	—
49	DVSS	Ground	—	0
50	DVDD	+5V power supply	—	5.0
51–68	—	Not used	—	—
69	DVSS	Ground	—	0
70	DVDD	+5V power supply	—	5.0
71,72		Ground	—	0
73	DVDD	+5V power supply	—	5.0
74,75	DVB	+5V power supply	—	5.0
76–78	—	Not used	—	—
79	AVB	+5V power supply	—	5.0
80,81	AOUT R2,L2	Audio-Rear output	O	2.5
82	NC	No connection	—	—
83,84	AOUT R1,L1	Audio-Front output	O	2.5
85,86		Ground	—	0
87,88		+5V power supply	—	5.0
89	NC	No connection	—	—
90	A IN R–	Audio Rch (-) input	I	2.3
91	A IN R+	Audio Rch (+) input	I	2.5
92	A IN L–	Audio Lch (-) input	I	2.3
93	A IN L+	Audio Lch (+) input	I	2.5
94	VCON	Voltage control	—	2.5
95,96		Ground	—	0
97	AVDD	+5V power supply	—	5.0
98,99		+5V power supply	—	5.0
100	NC	No connecion	—	—

<CD Servo Block>

■ IC401 MN662741RH

Pin No.	Port	Description	I/O	Vol.(V)
1	BLCK	Not used	—	—
2	LRCK	Not used	—	—
3	SRDATA	Not used	—	—
4	DVDD1	+5V Power Supply for Digtal	—	5.0
5	DVSS1	Ground for Digtal	—	0
6	TX	Not used	—	—
7	MCLK	Command Clock Signal	I	0
8	MDATA	Command Data	I	0
9	MLD	Command Load	I	0
10	SENSE	Sense Signal	O	0
11	/FLOCK	Focus Servo	O	0
12	/TLOCK	Tracking Servo	O	4.9
13	BLKCK	Not used	—	—
14	SQCK	EX-Clock for Subcode Q	I	4.9
15	SUBQ	Sugcord Q-code	O	2.5
16	DMUTE	Muting	I	0
17	STAT	Status Signal	O	3.1
18	/RST	Reset Input	I	4.9
19	SMCK	Not used	—	—
20	PMCK	Not used	—	—
21	TRV	Traverse Motor Control	O	2.5
22	TVD	Traverse Motor Control	O	2.5
23	PC	Spindle Motor ON	O	0
24	ECM	Spindle Motor Drive	O	2.5
25	ECS	Spindle Motor Drive	O	2.5
26	KICK	Kick Pulse	O	2.5
27	TRD	Tracking Drive	O	2.5
28	FOD	Focus Drive	O	2.5
29	VREF	Reference Voltage	I	2.5
30	FBAL	Focus Balance	O	2.5
31	TBAL	Tracking Balance	O	2.5
32	FE	Focus Error	I	2.5
33	TE	Tracking Error	I	2.5
34	RFENV	RF Envelope	I	2.5
35	VDET	Detecting Signal	I	0
36	OFT	OFF Track Signal	I	0
37	TRCRS	Track Close	I	2.1
38	/RFDET	RF Detecting Signal	I	0
39	BDO	Drop-out Signal	I	0
40	LDON	Laser ON Signal	O	4.5

Pin No.	Port	Description	I/O	Vol.(V)
41	TES	Tracking Error Shunt	O	0
42	PLAY	Not used	—	—
43	WVEL	Not used	—	—
44	ARF	RF Signal	I	1.7
45	IREF	Standard Current Input	I	1.6
46	DRF	Bias for DSL	I	0
47	DSLF	Loop Filter for DSL	I/O	2.4
48	PLLF	Loop Filter for PLL	I/O	1.8
49	VCOF	(Connecting Ground)	—	0
50	AVDD2	Power Supply for Analog	—	5.0
51	AVSS2	Ground Analog	—	0
52	EFN	Not used	—	—
53	PCK	Not used	—	—
54	TOFS	Tracking offset	O	2.5
55	SUBC	Not used	—	—
56	SBCK	(Connecting Ground)	—	0
57	VSS	Ground	—	0
58	X1	Crystal oscillator	I	1.7
59	X2	Crystal oscillator	O	2.3
60	VDD	+5V Power Supply	—	5.0
61	TRSP	Traverse stop	O	0
62	CLDCK	Nou used	—	—
63	FCLK	F-Clock	O	0
64	IPFLAG	H-Flag	O	0
65	FLAG	Flag Output	O	0
66	CLVS	Not used	—	—
67	CRC	Not used	—	—
68	DEMPH	Not used	—	—
69	RESY	Not used	—	—
70	IOSEL	(Connecting AVDD)	I	5.0
71	/TEST	(Connecting AVDD)	I	5.0
72	AVDD1	+5V Power Supply for Analog	—	4.9
73	OUTL	L-Channel Output	O	4.9
74	AVSS1	Ground for Analog	—	0
75	OUTR	R-Channel Output	O	4.9
76	RSEL	(Connecting AVDD)	—	5.0
77	CSEL	(Connecting Ground)	I	0
78	PSEL	(Connecting Ground)	I	0
79	MSEL	(Connecting Ground)	I	0
80	SSEL	+5V Power Supply	—	5.0

<Display Block>

■ IC611 C2BBFE000047

Pin No.	Port	Description	I/O	Vol.(V)
1~8	—	Not used	—	—
9	GND	Ground	—	0
10,11	—	Not used	—	—
12	TUNE.UP	Tune up switch	I	0
13	TUNE.DOWN	Tune down switch	I	0
14	VOL.UP	Volume up switch	I	5.0
15	VOL.DWN	Volume down switch	I	0
16	TUNE.PUSH	Tune push switch	I	5.0
17	—	No connection	—	—
18~23	D0~5	LCD control data	O	0
24	GND	Ground	—	0
25,26	D6,7	LCD control data	O	0
27	SCAN.LED	SCAN LED on/off	O	10.2
28	P.SCAN.LED	P.SCAN LED on/off	O	10.2
29	RBDS.LED	RBDS LED on/off	O	0
30	RANDOM.LED	RANDOM LED on/off	O	0.4
31	E	LCD driver enable	O	0
32	ILL 1	Illumination control	O	0
33	ILL 2	Illumination control	O	0
34	RESET	LCD reset	O	0
35	RESET	Reset input	I	4.7
36	KI1	Key data	I	0
37	LED.DATA	LED control data	O	0

Pin No.	Port	Description	I/O	Vol.(V)
38	LED.CLK	LED control clock	O	0
39	LED.R.CLK	LED control clock	O	0
40	VDD	+5V power supply	—	5.2
41	X2	Crystal oscillator	—	3.0
42	X1	Crystal oscillator	—	1.7
43	IC	(Connecting to ground)	—	0
44	—	No connection	—	—
45	KI2	Key data	I	0
46	AVSS	Ground	—	0
47	PHOTO.IN	Photo sensor data	I	0
48,49	KO2,1	Key scan	O	0
50~53	KI3~6	Key data	I	0
54	AO	LCD driver select	O	0
55	AVDD	+5V power supply	—	5.2
56	AVREF	+5V power supply	—	5.2
57	PANEL.SI	Serial data for panel	I	5.1
58	PANEL.SO	Serial data for panel	O	0
59	PANEL.CLK	Clock for panel	I	5.0
60,61	KO3,4	Key scan	O	0
62	K-LINE IN	K-line data	I	5.2
63	K-LINE OUT	K-line data	O	5.2
64	KO5	Key scan	O	0

■ IC612 YEAMNJU6450G

Pin No.	Port	Description	I/O	Vol.(V)
1,2	COM7,8	LCD common signal	O	0.1
3~10	—	No connection	—	—
11~70	SEG59~0	LCD segment data	O	0.1
71	AO	LCD driver select	I	0
72	OSC1	Oscillator terminal	—	1.9
73	OSC2	Oscillator terminal	—	2.0
74	E	LCD driver enable	I	0
75	R/W	(Connecting to ground)	—	0
76	GND	Ground	—	0
77~84	D0~7	LCD control data	I	0

Pin No.	Port	Description	I/O	Vol.(V)
85	P.ON.5V	+5V power supply	—	4.9
86	RESET	Reset input	I	5.2
87	—	No connection	—	—
88	V5	Reference voltage setting	—	-4.7
89	V3	Reference voltage setting	—	-0.8
90	V2	Reference voltage setting	—	1.1
91	M/S	(Connecting to +5V)	—	4.9
92	V4	Reference voltage setting	—	-2.8
93	V1	Reference voltage setting	—	3.0
94~100	COM0~6	LCD common signal	O	0.1

<CD Servo Block>

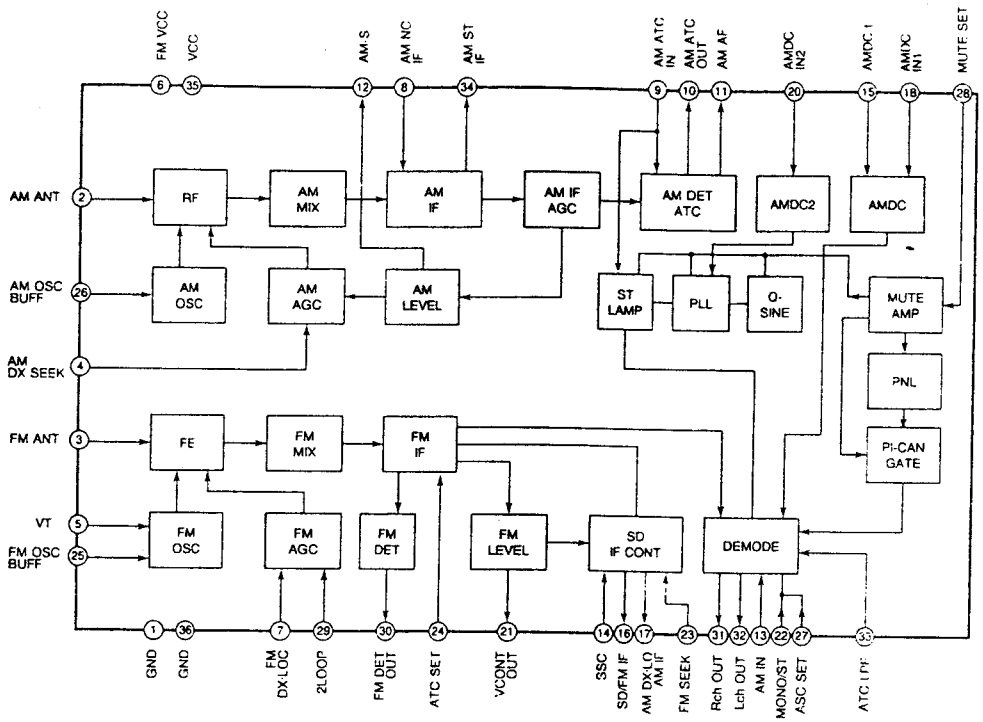
■ IC451 YEAM75XL8503

Pin No.	Port	Description	I/O	Vol.(V)
1	MLD	I/F communication load output	O	0
2	MDATA	I/F communication data output	O	0
3	MCLK	I/F communication clock output	O	0
4	MUTE	Mute output	O	0
5	SCKM	CD communication clock	O	5.1
6	SOM	CD communication data output	O	0
7	SIM	CD communication clock output	I	0
8	MASH ON	MASH on output	O	0.2
9	BRK	Loading motor brake	O	0
10,11	NC	No connection	—	—
12	NC	No connection	—	0
13	P43	Inner track SW	I	0
14	OUT	CD eject complation SW	I	0
15	IN	DISC IN SW	I	4.9
16	CLUMP	Clump completion SW	I	5.0
17	V_{SS}	Ground	—	0
18	XT1	(Connection to ground)	—	0
19	XT2	No connection	—	—
20	RESET	Reset input	I	5.2
21	X1	Crystal oscillator	—	2.5
22	X2	Crystal oscillatot	—	2.7
23	LOD	Loading motor control	O	2.5
24	PC1	Gain control	O	5.0
25	TRV	Forced traverse control	O	2.5
26	PC2	Gain control	O	0
27	/PRST	Reset input	I	4.9
28	DMUTE	Digital LSI mute	O	0
29	SUBQ	Q-code data	I	2.5
30	—	No connection	—	—
31	SQCK	Q-code clock	O	4.9
32,33	STAT	Signal process LSI status	I	3.1
34	NC	No connection	—	—
35	P12	(Connecting to ground)	—	0
36	CD.ON	MPU on/off status	I	5.2
37	VDET	Viblation detection	I	0
38	NC	+5V power supply	—	5.2
39	V_{DD}	+5V power supply	—	5.2
40	BDO	Drop out signal	I	0
41	/TLOCK	Tracking servo lock detection	I	4.9
42	/FLOCK	Focus servo lock detection	I	0
43	SENSE	Servo LSI status	I	0
44	—	No connection	—	—

PACKAGE AND IC BLOCK DIAGRAM

<Main Block>

● PA101 YEP0PTA533A0



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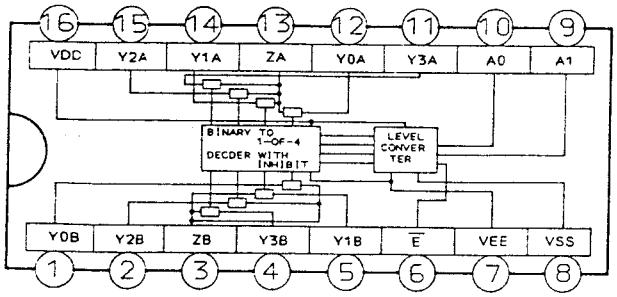

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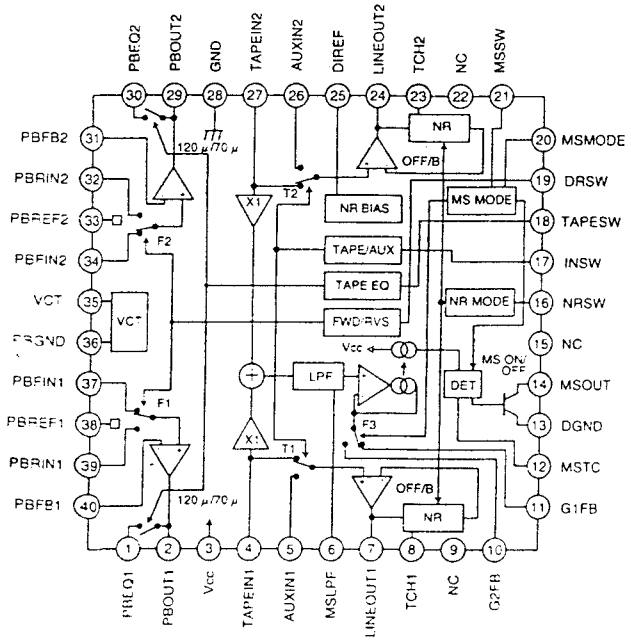

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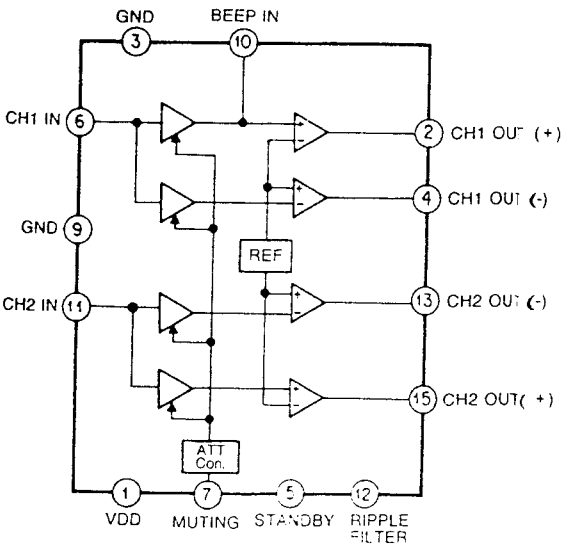

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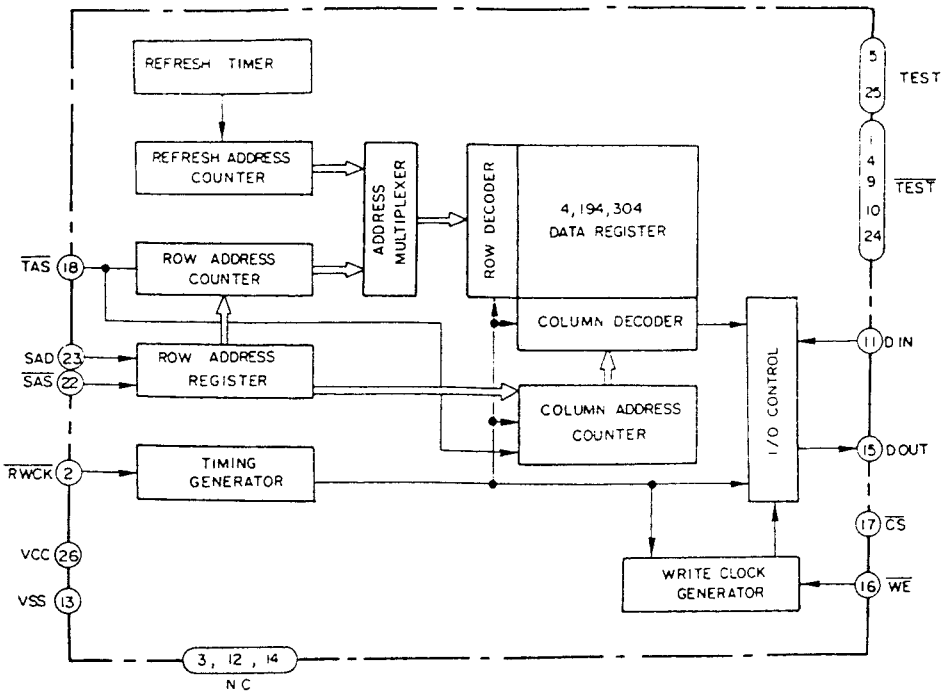
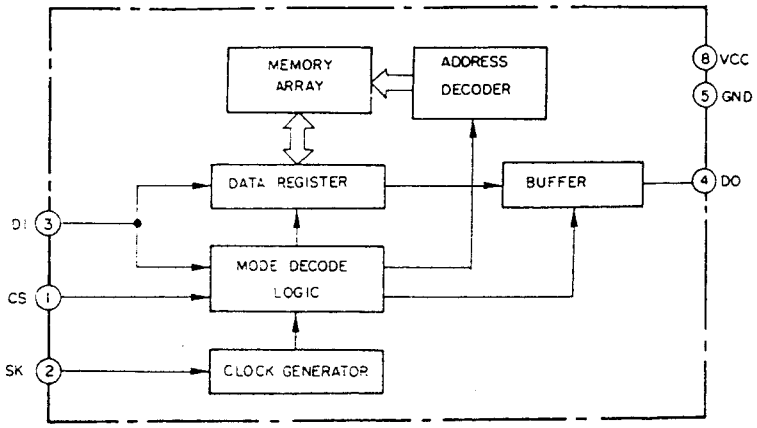
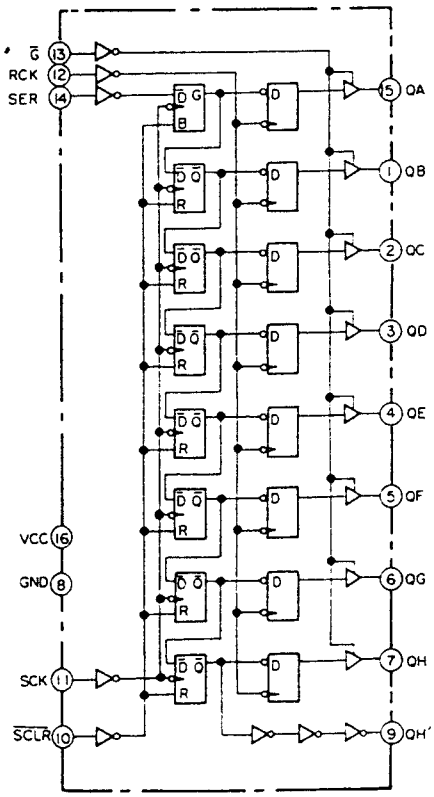


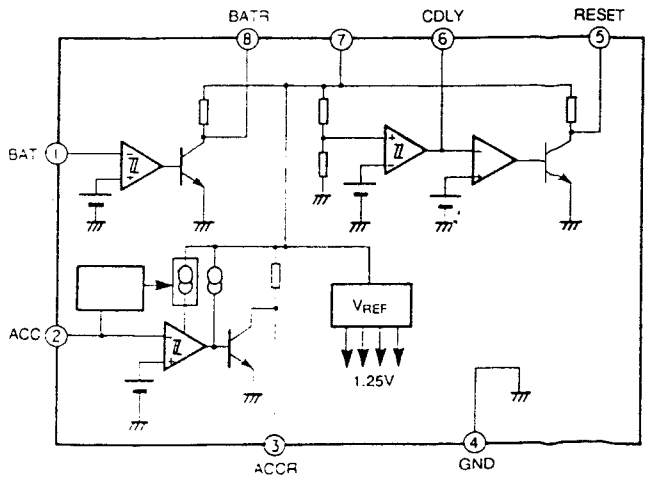
● IC602 YEAMS2922ADF



● IC503 YEAM74HC595T



● IC603 AN8065SE1



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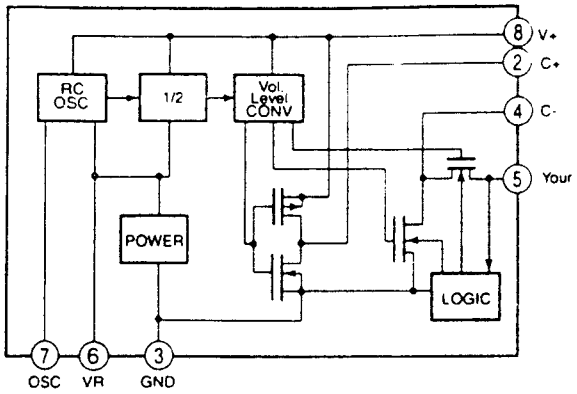
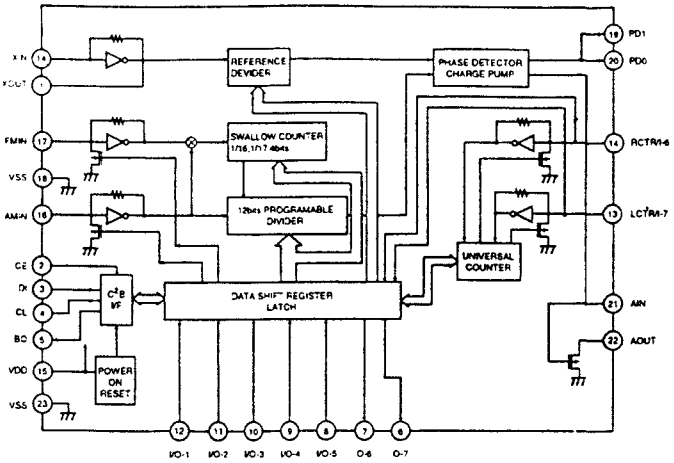
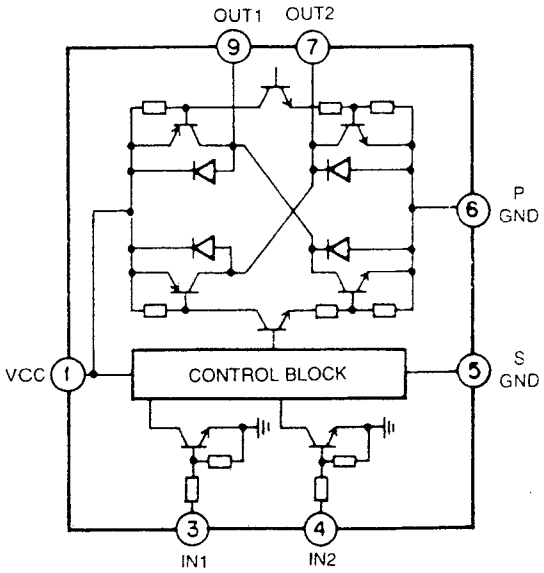


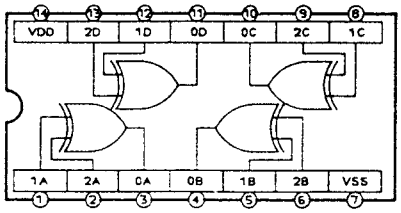
● IC701 YEAMLC72146T



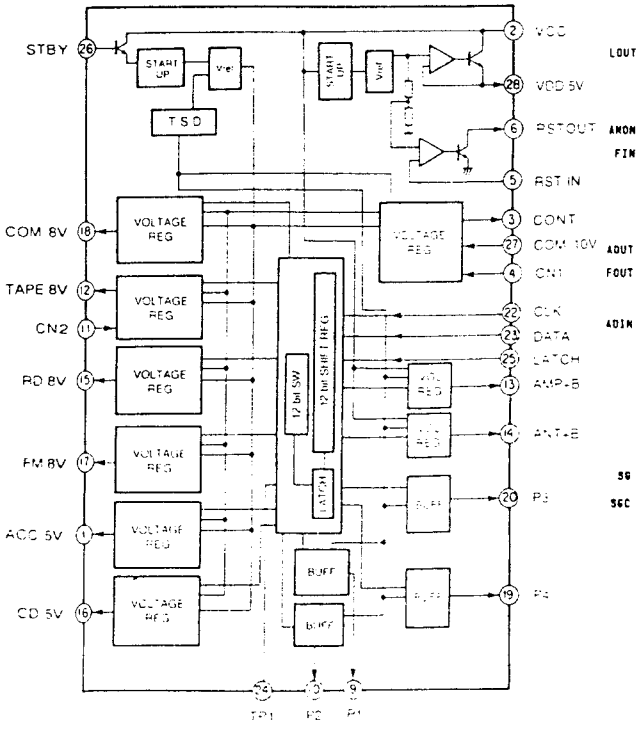
● IC711 YEAMLB1930MT



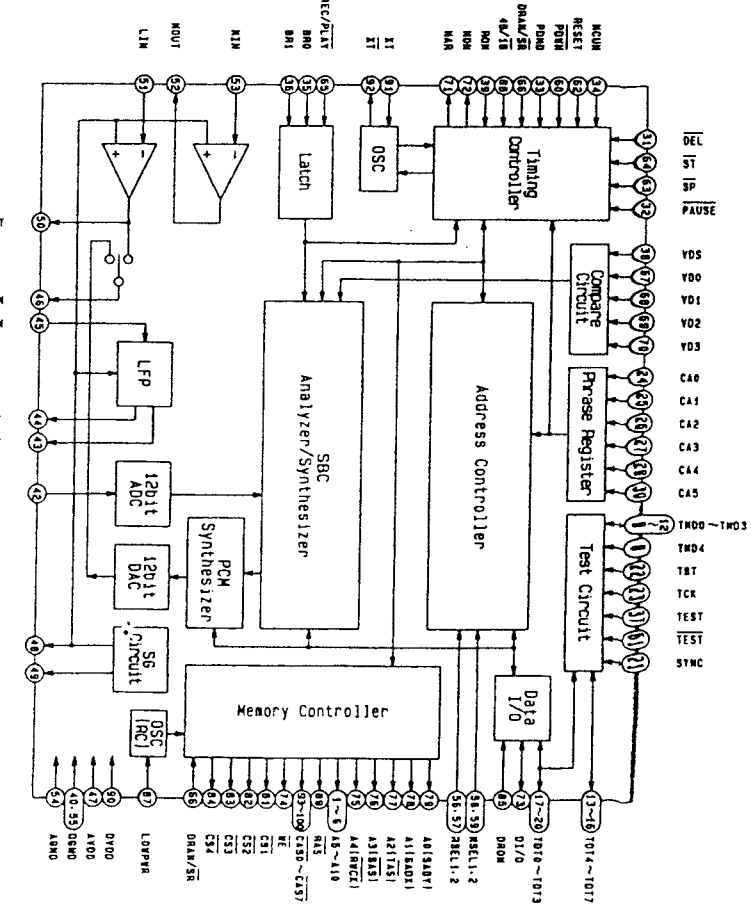
● IC635 YEAM74HC86F



● IC703 C0DBZHZ00002

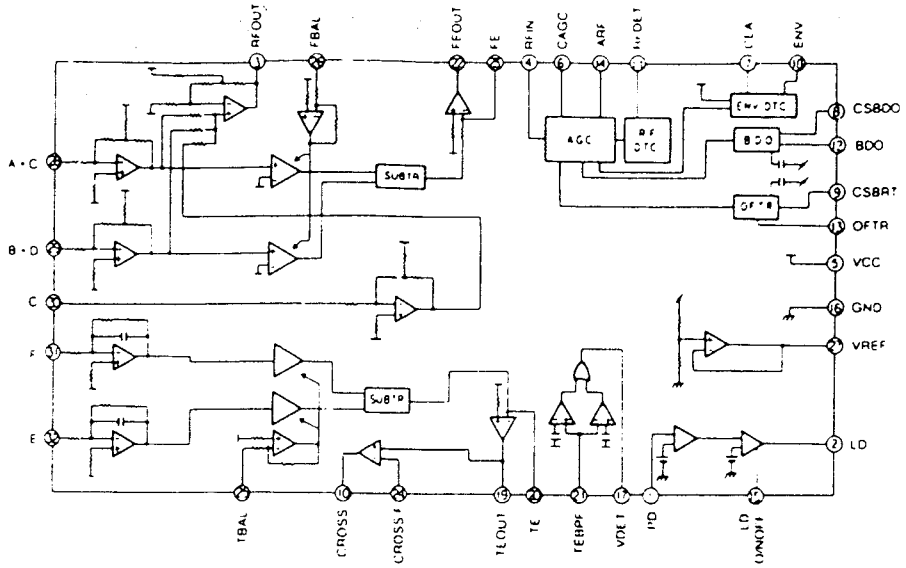


● IC501 YEAMS6789A



<CD Servo Block>

● IC101 YEAMBA6354FS



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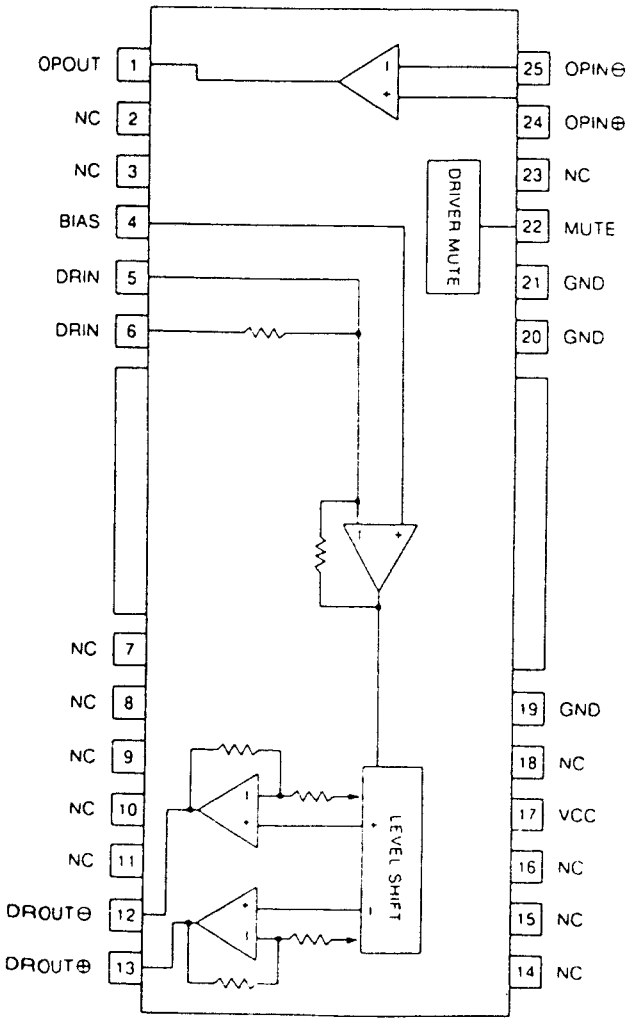

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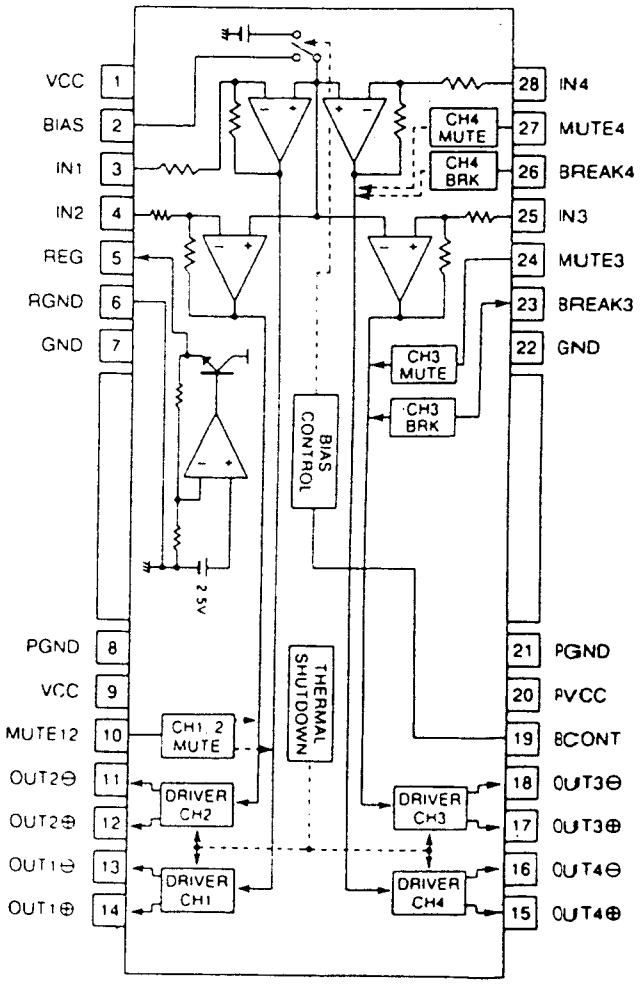


1 REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "MCC" marks in remarks column are indicated supply parts of Matsushita Communication Industrial Corp. of America (MCC).

1.1. IC's and Transistors

MAIN/AMP/DSP/CN BLOCK [E6724B]

Ref. No.	Part No.	Part Name & Description	Remarks
IC101	AN6564NST1	IC	
IC151	YEAMPC4574T2	IC	
IC171	YEAMBU1923F	IC	
IC233	YEAMPC4574T2	IC	
IC262	YEAMTC4W53FT	IC	
IC263	YEAMPC4574T2	IC	
IC265	YEAMM5218AFE	IC	
IC267	YEAMPD4052BG	IC	
IC268	YEAMPC4574T2	IC	
IC281	AN7190NKLC	IC	
IC282	YEAMCX2510AQ	IC	
IC335	YEAMPC4574T2	IC	
IC405	YEAM74HC126F	IC	
IC501	YEAMS6789A	IC	
IC502	YEAMS6684B	IC	
IC503	YEAM74HC595T	IC	
IC602	YEAMS2922ADF	IC	
IC603	AN8065SE1	IC	
IC606	YEAMC14584BE	IC	
IC621	C2DBJG000001	IC	
IC625	YEAMNJU7660M	IC	
IC626	YEAMM5218AFE	IC	
IC627	YEAMNJM2904M	IC	
IC635	YEAM74HC86F	IC	
IC701	YEAMLC72146T	IC	
IC703	C0DBZH200002	IC	
IC711	YEAMLB1930MT	IC	
IC751	AN7805	IC	
IC781	YEAMM5218AFE	IC	
IC801	YEAMAK7712AF	IC	
IC802	AN7805	IC	
IC803	AN7805	IC	
IC901	C2BBFC000001	IC	
PA101	YEP0PTA533A0	Tuner Pack	
Q53	2SB1073TX	Transistor	
Q54	YEANC114EUKT	Transistor	
Q55	YEANC3618	Transistor	
Q101	YEANC144EKT	Transistor	
Q120	B1ABBD000004	Transistor	
Q202	YEANC3661TA	Transistor	
Q222	YEANC323TUTX	Transistor	
Q253	YEANC323TKT	Transistor	
Q254	YEANC323TKT	Transistor	
Q287	YEANC114YUTX	Transistor	
Q302	YEANC3661TA	Transistor	
Q303	YEANC4081SKT	Transistor	
Q322	YEANC323TUTX	Transistor	
Q353	YEANC323TKT	Transistor	
Q354	YEANC323TKT	Transistor	
Q393	YEANC144EUTX	Transistor	
Q394	YEANC144EUTX	Transistor	
Q395	YEANC144EUTX	Transistor	
Q405	YEANC144EUTX	Transistor	
Q501	YEANA114EUKT	Transistor	
Q502	YEANC114YUTX	Transistor	
Q511	YEANA114EUKT	Transistor	
Q512	YEANC144EUTX	Transistor	
Q600	YEANC4081SKT	Transistor	
Q603	YEANFP1F3PT1	Transistor	
Q608	YEANC3618	Transistor	
Q621	YEANB624T2	Transistor	
Q622	YEANC144EUTX	Transistor	
Q627	YEANC114YKT	Transistor	
Q671	YEANC4081SKT	Transistor	
Q672	YEANA144EKT	Transistor	
Q673	YEANC114EUKT	Transistor	
Q681	YEANC114YUTX	Transistor	
Q682	YEANFP1F3PT1	Transistor	
Q689	YEANA812T2	Transistor	
Q701	YEAN2SK536TB	Transistor	
Q702	2SB1398QTA	Transistor	
Q703	YEANA114YKTX	Transistor	
Q705	YEAN2SA1757	Transistor	
Q706	YEANC3618	Transistor	
Q708	YEANC114YKT	Transistor	
Q709	YEANFP1F3PT1	Transistor	
Q710	YEANFP1F3PT1	Transistor	
Q711	B1ADNC000001	Transistor	
Q712	YEANC3618	Transistor	
Q713	2SD1328STTX	Transistor	
Q723	YEANB624T2	Transistor	
Q724	YEANC114YUTX	Transistor	
Q725	YEANA114YKTX	Transistor	
Q729	YEANA114EUKT	Transistor	
Q730	YEANA114EUKT	Transistor	
Q731	YEANC114EUKT	Transistor	
Q773	YEANC323TKT	Transistor	
Q774	YEANC323TKT	Transistor	
Q775	YEANC1623	Transistor	
Q776	YEANC1623	Transistor	
Q801	YEANC1623	Transistor	
Q802	YEANHR1F3PT1	Transistor	
Q803	YEANC114EUKT	Transistor	
Q901	YEANC4081SKT	Transistor	
Q902	YEANC4081SKT	Transistor	
Q903	YEANA812T2	Transistor	
Q904	YEANA144EUTX	Transistor	
Q905	YEANC144WUTX	Transistor	
Q906	YEANC3661TA	Transistor	

DISPLAY BLOCK [E8585]

Ref. No.	Part No.	Part Name & Description	Remarks
IC611	C2BBFE000047	IC	
IC612	YEAMNJU6450G	IC	
IC613	YEAMBA823F	IC	
IC614	YEAMBA823F	IC	
Q611	YEANC114YKT	Transistor	
Q612	YEANC114YKT	Transistor	
Q613	YEANFP1F3PT1	Transistor	
Q614	YEANFP1F3PT1	Transistor	
Q615	YEANC1623	Transistor	
Q616	YEANSFH320T	Transistor	

1.2. Diodes

MAIN/AMP/DSP/CN BLOCK [E6724B]

Ref. No.	Part No.	Part Name & Description	Remarks
D51	YEADRD10M2T1	Diode	
D52	YEADRD43M2T2	Diode	
D53	YEAD1SS355T1	Diode	
D54	YEAD1SS355T1	Diode	
D55	YEAD1SS355T1	Diode	
D56	YEAD1SS355T1	Diode	
D151	MA153TX	Diode	
D152	MA153TX	Diode	
D156	MA151WKTX	Diode	
D600	YEAD1SS355T1	Diode	
D601	MA142WATX	Diode	
D602	MA142WATX	Diode	
D605	MA151WA	Diode	
D606	MA151WA	Diode	
D607	YEAD1SS355T1	Diode	
D609	YEADRD56M3T2	Diode	
D610	YEAD1SS355T1	Diode	
D612	YEAD1SS355T1	Diode	
D613	YEAD1SS355T1	Diode	
D614	YEAD1SS355T1	Diode	
D615	YEADRD51M2T1	Diode	
D617	YEAD1SS355T1	Diode	
D620	YEAD1SS355T1	Diode	
D621	YEAD1SS355T1	Diode	
D622	MA729TX	Diode	
D623	YEADRD51M2T1	Diode	
D624	MA151WA	Diode	
D626	YEAD1SS355T1	Diode	
D681	YEAD1SS355T1	Diode	
D682	YEAD1SS355T1	Diode	
D684	MA142WATX	Diode	
D685	YEAD1SS355T1	Diode	
D695	YEAD1SS355T1	Diode	
D696	YEADRD51M2T1	Diode	
D697	MA151WA	Diode	
D698	YEADRD56M2T1	Diode	
D699	YEAD1SS355T1	Diode	
D700	YEADRB051L40	Diode	
D702	YEAD1SS355T1	Diode	
D703	MA142WKTX	Diode	
D704	YEADRD56M3T1	Diode	
D710	YEAD1SS355T1	Diode	
D711	YEAD1SS355T1	Diode	
D722	YEADRD51M2T1	Diode	
D725	YEAD1SS355T1	Diode	
D730	MA741TX	Diode	
D731	MA151WKTX	Diode	
D732	YEAD1SS355T1	Diode	
D733	MA142WATX	Diode	
D734	MA142WATX	Diode	
D735	MA741TX	Diode	
D771	YEADEC10DS1	Diode	
D772	YEADEC10DS1	Diode	
D773	MA159TX	Diode	
D780	MA3068MTX	Diode	
D782	YEADDSM3MA2T	Diode	
D801	MA151WKTX	Diode	
D802	YEADRD51M2T1	Diode	
D803	YEADEC10DS1	Diode	
D808	MA721TX	Diode	
D901	YEADRB051L40	Diode	
D992	MA142WATX	Diode	
D993	YEAD1SS355T1	Diode	

DISPLAY BLOCK [E8585]

Ref. No.	Part No.	Part Name & Description	Remarks
D901	YEADLST676T	LED	
D902	YEADLST676T	LED	
D903	YEADLST676T	LED	
D904	YEADLST676T	LED	

Ref. No.	Part No.	Part Name & Description	Remarks
D905	YEADLST676T	LED	
D906	YEADLST676T	LED	
D907	YEADLST676T	LED	
D908	YEADLST676T	LED	
D909	YEADLST676T	LED	
D910	YEADLST676T	LED	
D911	YEADLST676T	LED	
D912	YEADLST676T	LED	
D913	YEADLST676T	LED	
D914	YEADLST676T	LED	
D915	YEADLST676T	LED	
D916	YEADLST676T	LED	
D917	YEADLST676T	LED	
D918	YEADLST676T	LED	
D919	YEADLST676T	LED	
D920	YEADLST676T	LED	
D921	YEADLST676T	LED	
D922	YEADLST676T	LED	
D923	YEADLST676T	LED	
D924	YEADLST676T	LED	
D925	YEADLST676T	LED	
D926	YEADLST676T	LED	
D927	YEADLST676T	LED	
D928	YEADLST676T	LED	
D929	YEADLST676T	LED	
D930	YEADLST676T	LED	
D931	YEADLST676T	LED	
D932	YEADLST676T	LED	
D933	YEADLST676T	LED	
D934	YEADLST676T	LED	
D935	YEADLST676T	LED	
D936	YEADLST676T	LED	
D937	YEADLST676T	LED	
D938	YEADLST676T	LED	
D939	YEADLST676T	LED	
D940	YEADLST676T	LED	
D941	YEADLST676T	LED	
D942	YEADLST676T	LED	
D943	YEADLST676T	LED	
D944	YEADLST676T	LED	
D945	YEADLST676T	LED	
D946	YEADLST676T	LED	
D947	YEADLST676T	LED	
D948	YEADLST676T	LED	
D949	YEADLST676T	LED	
D950	YEADLST676T	LED	
D951	YEADLST676T	LED	
D952	YEADLST676T	LED	
D953	YEADLST676T	LED	
D954	YEADLST676T	LED	
D955	YEADLST676T	LED	
D956	YEADLST676T	LED	
D957	YEADLST676T	LED	
D958	YEADLST676T	LED	
D959	YEADLST676T	LED	
D960	YEADLST676T	LED	
D961	YEADLST676T	LED	
D962	YEADLST676T	LED	
D963	YEADLST676T	LED	
D964	YEADLST676T	LED	
D965	YEADLST676T	LED	
D966	YEADLST676T	LED	
D967	YEADLST676T	LED	
D968	YEADLST676T	LED	
D969	YEADLST676T	LED	
D970	YEADLST676T	LED	
D971	YEADLST676T	LED	
D972	YEADLST676T	LED	
D973	YEADLST676T	LED	
D974	YEADLST676T	LED	
D975	YEADLST676T	LED	
D976	YEADLST676T	LED	
D977	YEADLST676T	LED	

Ref. No.	Part No.	Part Name & Description	Remarks
D978	YEADLST676T	LED	
D979	YEADLST676T	LED	
D980	YEADLST676T	LED	
D981	YEADLST676T	LED	
D982	YEADLST676T	LED	
D983	MA159TX	Diode	
D984	MA159TX	Diode	
D985	YEAD1SS355T1	Diode	
D986	YEADLST676T	LED	
D987	YEADLST676T	LED	
D988	YEADLST676T	LED	
D989	YEADLST676T	LED	
D990	YEADLST676T	LED	
D991	YEADLST676T	LED	

1.3. Capacitors

MAIN/AMP/DSP/CN BLOCK [E6724B]

Ref. No.	Part No.	Part Name & Description	Remarks
C48	YECUS1C474KX	Ceramic, 0.47µF 16WV	
C49	ECEA1CKA101	Electrolytic, 100µF 16WV	
C50	YECUS1H101JM	Ceramic, 100PF 50WV	
C53	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C54	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C56	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C102	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C103	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C104	ECA1AM101I	Electrolytic, 100µF 10WV	
C105	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C106	YECUS1H153KX	Ceramic, 0.015µF 50WV	
C107	YECUS1C154KX	Ceramic, 0.15µF 16WV	
C108	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C109	YECUS1H183KX	Ceramic, 0.018µF 50WV	
C110	YECUS1C154KX	Ceramic, 0.15µF 16WV	
C111	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C112	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C113	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C114	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C115	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C116	YECUS1H101JM	Ceramic, 100PF 50WV	
C117	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C118	YECUS1H101JM	Ceramic, 100PF 50WV	
C119	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C120	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C121	ECA1AM221I	Electrolytic, 220µF 10WV	
C124	YECUS1H101JM	Ceramic, 100PF 50WV	
C125	YECUZ1H271JC	Ceramic, 270PF 50WV	
C126	YECUZ1E103KX	Ceramic, 0.01µF 25WV	
C127	YECUZ1E103KX	Ceramic, 0.01µF 25WV	
C129	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C130	YECUS1H820JM	Ceramic, 82PF 50WV	
C131	YECUZ1E103KX	Ceramic, 0.01µF 25WV	
C152	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C153	YECUS1H152KX	Ceramic, 0.0015µF 50WV	
C154	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C155	YECUS1H151JM	Ceramic, 150PF 50WV	
C156	YECUS1H151JM	Ceramic, 150PF 50WV	
C157	YECUS1H151JM	Ceramic, 150PF 50WV	
C158	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C159	YECUS1H220JM	Ceramic, 22PF 50WV	
C160	YECUZ1H102KX	Ceramic, 0.001µF 50WV	
C161	YECUZ1E223KX	Ceramic, 0.022µF 25WV	
C163	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C164	YECUS1H151JM	Ceramic, 150PF 50WV	
C169	YECUS1C274KX	Ceramic, 0.27µF 16WV	
C170	YECUS1H560JM	Ceramic, 56PF 50WV	
C171	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C172	YECUS1H271JM	Ceramic, 270PF 50WV	
C173	YECUS1H121JM	Ceramic, 120PF 50WV	
C174	YECUS1H220JM	Ceramic, 22PF 50WV	
C175	YECUS1H220JM	Ceramic, 22PF 50WV	
C176	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C177	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C178	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C179	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C201	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C202	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C203	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C204	ECA1CM470I	Electrolytic, 47µF 16WV	
C207	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C208	ECA1CM470I	Electrolytic, 47µF 16WV	
C211	YECUS1H123KX	Ceramic, 0.012µF 50WV	
C212	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C213	YECUS1H470JM	Ceramic, 47PF 50WV	
C214	ECEA1CKN100I	Electrolytic, 10µF 16WV	
C216	YECUS1H153KX	Ceramic, 0.015µF 50WV	
C217	YECUS1H221JM	Ceramic, 220PF 50WV	
C218	YECUS1H101JM	Ceramic, 100PF 50WV	
C222	YECUS1C474KX	Ceramic, 0.47µF 16WV	
C228	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C229	YECUS1H151JM	Ceramic, 150PF 50WV	
C230	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C231	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C234	YECUS1H151JM	Ceramic, 150PF 50WV	
C251	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C252	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C253	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C254	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C255	ECEA1CKA470I	Electrolytic, 47µF 16WV	
C256	ECEA1CKA470I	Electrolytic, 47µF 16WV	
C258	YECUS1H101JM	Ceramic, 100PF 50WV	
C259	YECUS1H101JM	Ceramic, 100PF 50WV	
C260	YECUZ1H271JC	Ceramic, 270PF 50WV	
C261	YECUS1H271JM	Ceramic, 270PF 50WV	
C263	YECUS1H272KX	Ceramic, 0.0027µF 50WV	
C264	YECUZ1H272KX	Ceramic, 0.0027µF 50WV	
C271	YECUZ1H221JC	Ceramic, 220PF 50WV	
C272	YECUZ1H221JC	Ceramic, 220PF 50WV	
C273	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C274	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C275	F1K1A1060001	Ceramic, 10µF 10WV	
C277	YECUS1H561KX	Ceramic, 560PF 50WV	
C278	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C280	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C281	YECUS1H471JM	Ceramic, 470PF 50WV	
C282	ECQV1H224JL2	Plastic Film, 0.22µF 50WV	
C283	ECQV1H224JL2	Plastic Film, 0.22µF 50WV	
C284	ECA1CM330I	Electrolytic, 33µF 16WV	
C286	YECUS1C394KX	Ceramic, 0.39µF 16WV	
C287	YECUS1H332KX	Ceramic, 0.0033µF 50WV	
C288	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C289	YECUS1H332KX	Ceramic, 0.0033µF 50WV	
C290	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C292	ECA1HM010I	Electrolytic, 1µF 50WV	
C293	ECA1CM100I	Electrolytic, 10µF 16WV	
C294	ECA1CM100I	Electrolytic, 10µF 16WV	
C296	ECA1HM010I	Electrolytic, 1µF 50WV	
C297	YECUS1H222KX	Ceramic, 0.0022µF 50WV	
C298	YECUS1H222KX	Ceramic, 0.0022µF 50WV	
C301	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C302	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C303	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C311	YECUS1H123KX	Ceramic, 0.012µF 50WV	
C312	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C313	YECUS1H470JM	Ceramic, 47PF 50WV	
C314	ECEA1CKN100I	Electrolytic, 10µF 16WV	
C316	YECUS1H153KX	Ceramic, 0.015µF 50WV	
C318	YECUS1H101JM	Ceramic, 100PF 50WV	
C322	YECUS1C474KX	Ceramic, 0.47µF 16WV	
C328	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C329	YECUS1H151JM	Ceramic, 150PF 50WV	
C330	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C331	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C332	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C334	YECUS1H151JM	Ceramic, 150PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C351	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C352	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C353	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C354	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C355	ECEA1CKA470I	Electrolytic, 47µF 16WV	
C356	ECEA1CKA470I	Electrolytic, 47µF 16WV	
C358	YECUS1H101JM	Ceramic, 100PF 50WV	
C359	YECUS1H101JM	Ceramic, 100PF 50WV	
C360	YECUS1H271JM	Ceramic, 270PF 50WV	
C361	YECUZ1H271JC	Ceramic, 270PF 50WV	
C363	YECUS1H272KX	Ceramic, 0.0027µF 50WV	
C364	YECUZ1H272KX	Ceramic, 0.0027µF 50WV	
C371	YECUZ1H221JC	Ceramic, 220PF 50WV	
C372	YECUS1H221JM	Ceramic, 220PF 50WV	
C373	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C374	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C377	YECUS1H561KX	Ceramic, 560PF 50WV	
C378	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C380	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C381	YECUS1H471JM	Ceramic, 470PF 50WV	
C382	ECQV1H224JL2	Plastic Film, 0.22µF 50WV	
C383	ECQV1H224JL2	Plastic Film, 0.22µF 50WV	
C384	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C385	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C386	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C390	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C391	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C392	ECA1HM010I	Electrolytic, 1µF 50WV	
C393	ECA1CM100I	Electrolytic, 10µF 16WV	
C394	ECA1CM100I	Electrolytic, 10µF 16WV	
C397	YECUS1H222KX	Ceramic, 0.0022µF 50WV	
C398	YECUS1H222KX	Ceramic, 0.0022µF 50WV	
C404	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C405	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C406	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C502	ECA1AM101I	Electrolytic, 100µF 10WV	
C503	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C504	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C505	YECUS1H471JM	Ceramic, 470PF 50WV	
C506	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C507	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C508	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C509	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C510	YECUS1H471JM	Ceramic, 470PF 50WV	
C511	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C512	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C514	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C521	YECUS1C224KX	Ceramic, 0.22µF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C602	YECUS1H101JM	Ceramic, 100PF 50WV	
C604	YECUS1H101JM	Ceramic, 100PF 50WV	
C605	YECUS1H101JM	Ceramic, 100PF 50WV	
C606	ECEA0JKA221I	Electrolytic, 220µF 6.3WV	
C607	YECUS1H101JM	Ceramic, 100PF 50WV	
C608	YECUS1H101JM	Ceramic, 100PF 50WV	
C611	YECUS1H101JM	Ceramic, 100PF 50WV	
C612	YECUV1H101JM	Ceramic, 100PF 50WV	
C613	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C614	YECUS1H101JM	Ceramic, 100PF 50WV	
C617	YECUS1H101JM	Ceramic, 100PF 50WV	
C618	YECUS1H101JM	Ceramic, 100PF 50WV	
C619	YECUS1H101JM	Ceramic, 100PF 50WV	
C620	YECUS1H101JM	Ceramic, 100PF 50WV	
C621	YECUS1H101JM	Ceramic, 100PF 50WV	
C622	YECUS1H101JM	Ceramic, 100PF 50WV	
C623	YECUS1H101JM	Ceramic, 100PF 50WV	
C624	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C625	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C627	YECUS1H101JM	Ceramic, 100PF 50WV	
C628	YECUS1H101JM	Ceramic, 100PF 50WV	
C630	YECUS1H101JM	Ceramic, 100PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C632	YECUS1H101JM	Ceramic, 100PF 50WV	
C637	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C638	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C640	YECUS1H101JM	Ceramic, 100PF 50WV	
C643	YECUS1H101JM	Ceramic, 100PF 50WV	
C644	YECUS1H101JM	Ceramic, 100PF 50WV	
C645	YECUS1H101JM	Ceramic, 100PF 50WV	
C646	YECUS1H101JM	Ceramic, 100PF 50WV	
C647	YECUS1H101JM	Ceramic, 100PF 50WV	
C648	YECUS1H101JM	Ceramic, 100PF 50WV	
C649	YECUS1H101JM	Ceramic, 100PF 50WV	
C651	YECUS1H101JM	Ceramic, 100PF 50WV	
C652	ECA0JM221I	Electrolytic, 220µF 6.3WV	
C653	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C654	YECUS1H101JM	Ceramic, 100PF 50WV	
C656	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C657	ECA1CM221I	Electrolytic, 220µF 16WV	
C658	YECUS1H150JM	Ceramic, 15PF 50WV	
C659	YECUS1H150JM	Ceramic, 15PF 50WV	
C660	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C661	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C663	YECUS1H101JM	Ceramic, 100PF 50WV	
C666	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C668	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C669	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C670	YECUS1H101JM	Ceramic, 100PF 50WV	
C671	YECUS1H101JM	Ceramic, 100PF 50WV	
C673	YECUS1H101JM	Ceramic, 100PF 50WV	
C674	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C676	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C678	YECUS1H101JM	Ceramic, 100PF 50WV	
C679	YECUS1H101JM	Ceramic, 100PF 50WV	
C680	YECUS1H101JM	Ceramic, 100PF 50WV	
C682	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C684	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C686	YECUS1H101JM	Ceramic, 100PF 50WV	
C687	YECUS1H101JM	Ceramic, 100PF 50WV	
C688	ECEA1AKS220I	Electrolytic, 22µF 10WV	
C689	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C690	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C691	YECUS1H101JM	Ceramic, 100PF 50WV	
C692	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C697	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C700	YECUZ1E103KX	Ceramic, 0.01µF 25WV	
C701	YECUS1H100DM	Ceramic, 10PF 50WV	
C702	YECUS1H100DM	Ceramic, 10PF 50WV	
C704	YECUS1H101JM	Ceramic, 100PF 50WV	
C705	YECUS1H101JM	Ceramic, 100PF 50WV	
C706	YECUS1H101JM	Ceramic, 100PF 50WV	
C707	YECUS1H101JM	Ceramic, 100PF 50WV	
C708	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C709	ECA1CM102B	Electrolytic, 1000µF 16WV	
C711	YECUS1H222KX	Ceramic, 0.0022µF 50WV	
C712	YECUS1E393KX	Ceramic, 0.039µF 25WV	
C713	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C715	YECUV1C105KX	Ceramic, 1µF 16WV	
C717	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C718	EEAFC0J121H	Electrolytic, 120µF 6.3WV	
C719	YEECFS0H104Z	Electrolytic, 1µF 5.5WV	
C720	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C721	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C722	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C723	YECUS1H101JM	Ceramic, 100PF 50WV	
C724	YECUZ1H101JC	Ceramic, 100PF 50WV	
C726	ECA1CM102B	Electrolytic, 1000µF 16WV	
C727	YECUS1H221JM	Ceramic, 220PF 50WV	
C729	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C732	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C734	ECA1AM101I	Electrolytic, 100µF 10WV	
C735	YECUS1H101JM	Ceramic, 100PF 50WV	
C736	YECUS1H101JM	Ceramic, 100PF 50WV	
C737	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C738	ECA1CM100I	Electrolytic, 10µF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C739	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C740	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C741	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C742	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C749	YECUS1C474KX	Ceramic, 0.47µF 16WV	
C751	ECEA0JKA221I	Electrolytic, 220µF 6.3WV	
C752	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C756	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C771	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C772	ECA1HM2R2I	Electrolytic, 2.2µF 50WV	
C773	YECUV1C474ZF	Ceramic, 0.47µF 16WV	
C774	YECUV1C474ZF	Ceramic, 0.47µF 16WV	
C775	YECUV1C474ZF	Ceramic, 0.47µF 16WV	
C776	YECUV1C474ZF	Ceramic, 0.47µF 16WV	
C781	ECA1CM102B	Electrolytic, 1000µF 16WV	
C782	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C783	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C784	ECA1CM102B	Electrolytic, 1000µF 16WV	
C785	YECUS1H223KX	Ceramic, 0.022µF 50WV	
C787	YECUS1C474KX	Ceramic, 0.47µF 16WV	
C788	YECUS1H101JM	Ceramic, 100PF 50WV	
C789	YECUS1H101JM	Ceramic, 100PF 50WV	
C790	ECA1CM470I	Electrolytic, 47µF 16WV	
C791	YECUS1C224ZF	Ceramic, 0.22µF 16WV	
C792	YECUS1C224ZF	Ceramic, 0.22µF 16WV	
C797	ECEA1AKA101I	Electrolytic, 100µF 10WV	
C801	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C802	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C803	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C804	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C805	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C806	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C807	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C808	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C809	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C810	ECA1CM471B	Electrolytic, 470µF 16WV	
C811	F1K1A1060001	Ceramic, 10µF 10WV	
C812	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C813	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C814	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C815	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C816	F1K1A1060001	Ceramic, 10µF 10WV	
C817	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C818	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C819	YECUS1H180JC	Ceramic, 18PF 50WV	
C820	YECUS1H150JC	Ceramic, 15PF 50WV	
C821	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C823	F1K1A1060001	Ceramic, 10µF 10WV	
C826	YECUS1H332KX	Ceramic, 0.0033µF 50WV	
C827	YECUS1H332KX	Ceramic, 0.0033µF 50WV	
C828	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C831	YECUS1H101JM	Ceramic, 100PF 50WV	
C832	YECUS1H101JM	Ceramic, 100PF 50WV	
C833	YECUS1H101JM	Ceramic, 100PF 50WV	
C834	YECUS1H101JM	Ceramic, 100PF 50WV	
C835	YECUS1H101JM	Ceramic, 100PF 50WV	
C906	YECUS1H101JM	Ceramic, 100PF 50WV	
C907	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C914	YECUS1H101JM	Ceramic, 100PF 50WV	
C915	YECUZ1H101JC	Ceramic, 100PF 50WV	
C916	YECUZ1H101JC	Ceramic, 100PF 50WV	
C917	YECUS1H101JM	Ceramic, 100PF 50WV	
C918	YECUS1H101JM	Ceramic, 100PF 50WV	
C991	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C992	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C993	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C994	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C995	YECUS1H103KX	Ceramic, 0.01µF 50WV	
R606	YECUS1H101JM	Ceramic, 100PF 50WV	

DISPLAY BLOCK [ES585]

Ref. No.	Part No.	Part Name & Description	Remarks
C611	YECUS1E104ZF	Ceramic, 0.1µF 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C613	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C614	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C617	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C618	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C619	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C620	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C621	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C622	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C623	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C625	YECUS1H102KX	Ceramic, 0.001µF 50WV	

1.4. Resistors

MAIN BLOCK [E6724B]

Ref. No.	Part No.	Part Name & Description	Remarks
R53	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R54	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R55	ERJ12YJ102H	Chip, 1kΩ 1/2W	
R56	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R58	ERJ12YJ1R0H	Chip, 1Ω 1/2W	
R101	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R102	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R103	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R104	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R105	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R106	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R107	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R108	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R109	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R111	ERJ6GEYJ563	Chip, 56kΩ 1/10W	
R112	ERJ6GEYJ563	Chip, 56kΩ 1/10W	
R113	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R114	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R115	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R116	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R118	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R119	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R120	ERJ3GEYJ561V	Chip, 560Ω 1/16W	
R122	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R123	ERJ3GEYJ681V	Chip, 680Ω 1/16W	
R124	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R125	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R126	ERG1SJ271E	Metal Oxid, 270Ω 1W	
R127	ERG1SJ271E	Metal Oxid, 270Ω 1W	
R128	ERG1SJ271E	Metal Oxid, 270Ω 1W	
R153	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R154	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R155	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R156	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R157	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R158	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R159	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R160	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R161	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R162	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R163	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R164	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R165	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R166	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R167	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R168	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R171	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R201	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R202	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R203	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R205	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R207	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R208	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R212	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R213	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R214	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R216	ERJ6GEYJ101	Chip, 100Ω 1/10W	

Ref. No.	Part No	Part Name & Description	Remarks
R218	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R221	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R222	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R223	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R224	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R225	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R227	ERJ6GEYJ122	Chip, 1.2kΩ 1/10W	
R228	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R229	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R230	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R231	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R232	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R233	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R234	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R235	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R237	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R241	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R250	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R251	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R252	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R253	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R254	ERJ3GEYJ822V	Chip, 8.2kΩ 1/16W	
R255	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R256	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R257	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R258	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R259	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R260	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R261	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R262	ERJ3GEYJ822V	Chip, 8.2kΩ 1/16W	
R263	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R270	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R271	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R272	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R273	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R274	ERJ6GEYJ823	Chip, 82kΩ 1/10W	
R275	ERJ6GEYJ823	Chip, 82kΩ 1/10W	
R276	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R277	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R278	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R279	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R280	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R281	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R282	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R283	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R286	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R287	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R288	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R289	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R295	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R301	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R302	ERJ3GEYJ562V	Chip, 5.6kΩ 1/16W	
R303	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R305	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R312	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R313	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R314	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R316	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R318	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R321	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R322	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R323	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R324	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R325	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R327	ERJ6GEYJ122	Chip, 1.2kΩ 1/10W	
R328	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R329	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R330	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R331	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R332	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R333	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R334	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R335	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	

Ref. No.	Part No	Part Name & Description	Remarks
R341	ERJ8GEYJ822V	Chip, 8.2kΩ 1/8W	
R350	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R351	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R352	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R353	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R354	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R355	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R356	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R357	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R358	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R359	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R360	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R361	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R362	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R363	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R370	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R371	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R372	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R373	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R374	ERJ6GEYJ823	Chip, 82kΩ 1/10W	
R375	ERJ6GEYJ823	Chip, 82kΩ 1/10W	
R376	ERJ3GEYJ273V	Chip, 27kΩ 1/16W	
R377	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R378	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R379	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R380	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R381	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R382	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R383	ERJ6GEYJ2k2	Chip, 2.2Ω 1/10W	
R386	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R387	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R388	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R389	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R391	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R393	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R394	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R395	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R401	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R405	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R406	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R410	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R500	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R501	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R502	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R503	ERJ6GEYJ274	Chip, 270kΩ 1/10W	
R504	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R505	ERJ6GEYJ563	Chip, 56kΩ 1/10W	
R506	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R511	ERJ6GEYJ104	Chip, 100kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R600	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R601	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R602	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R603	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R604	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R605	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R611	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R620	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R624	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R625	ERX1SJ6R8V	Metal Film, 6.8Ω 1W	
R626	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R629	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R630	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R631	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R632	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R635	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R636	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R637	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R638	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R639	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R640	ERJ6GEYJ123	Chip, 12kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R641	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R642	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R643	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R644	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R645	ERJ6GEYJ821	Chip, 820Ω 1/10W	
R646	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R647	ERJ6GEYJ274	Chip, 270kΩ 1/10W	
R649	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R652	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R654	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R655	ERJ12YJ102H	Chip, 1kΩ 1/2W	
R656	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R657	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R658	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R659	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R660	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R661	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R662	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R663	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R664	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R665	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R666	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R667	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R668	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R669	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R670	ERJ6GEYJ470	Chip, 47Ω 1/10W	
R671	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R673	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R674	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R675	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R676	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R677	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R678	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R680	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R682	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R683	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R684	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R685	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R686	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R687	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R688	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R689	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R691	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R692	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R696	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R697	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R701	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R703	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R704	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R705	ERJ6GEYJ100	Chip, 10Ω 1/10W	
R706	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R707	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R708	ERJ8GEYJ222V	Chip, 2.2kΩ 1/8W	
R709	ERJ12YJ680H	Chip, 68Ω 1/2W	
R710	ERJ12YJ680H	Chip, 68Ω 1/2W	
R711	ERJ8GEYJ821V	Chip, 820Ω 1/8W	
R712	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R713	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R714	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R715	ERJ12YJ1R0H	Chip, 1Ω 1/2W	
R718	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R719	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R724	ERJ12YJ102H	Chip, 1kΩ 1/2W	
R727	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R733	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R734	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R735	ERJ8GEYJ6R8V	Chip, 6.8Ω 1/8W	
R736	ERJ6GEYJ151	Chip, 150Ω 1/10W	
R737	ERJ6GEYJ100	Chip, 10Ω 1/10W	
R739	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R740	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R741	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R743	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R745	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R757	ERJ12YJ561H	Chip, 560Ω 1/2W	
R761	ERG1SJ330E	Metal Oxid, 33Ω 1W	
R762	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R763	ERG1SJ330E	Metal Oxid, 33Ω 1W	
R764	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R765	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R766	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R780	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R781	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R782	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R784	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R785	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R787	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R788	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R789	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R791	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R792	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R795	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R797	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R798	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R800	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R801	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R802	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R803	ERG1SJ270E	Metal Oxid, 27Ω 1W	
R804	ERG1SJ270E	Metal Oxid, 27Ω 1W	
R805	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R806	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R807	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R808	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R809	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R810	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R811	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R813	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R814	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R815	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R816	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R817	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R818	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R819	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R820	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R821	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R823	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R901	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R902	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R908	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R909	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R910	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R911	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R912	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R915	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R916	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R918	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R920	ERJ6GEYJ122	Chip, 1.2kΩ 1/10W	
R921	ERJ6GEYJ122	Chip, 1.2kΩ 1/10W	
R922	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R923	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R924	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R925	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R926	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R927	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R951	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R991	ERJ6GEYJ104	Chip, 100kΩ 1/10W	

DISPLAY BLOCK [E8585]

Ref. No.	Part No.	Part Name & Description	Remarks
R609	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R613	ERJ12YJ270H	Chip, 27Ω 1/2W	
R616	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R617	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R618	ERJ6GEYJ105	Chip, 1MΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R619	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R622	ERJ6GEYJ105	Chip, 1MΩ 1/10W	
R623	ERJ6GEYJ561	Chip, 560Ω 1/10W	

1.5. Connectors

MAIN/AMP/DSP/CN BLOCK [E6724B]

Ref. No.	Part No.	Part Name & Description	Remarks
CN401	YEAEHLE08R2P	Connector, 8P	
CN621	YEAETKCF20PS	Connector, 20P	
CN622	YEAETKCF18PS	Connector, 18P	
CN624	YEAE9604S16S	Connector, 16P	
CN626	YEAE5280605	Connector, 5P	
CN627	YEAE5280607	Connector, 7P	
CN628	YEAE5280610	Connector, 10P	
CN631	YEAEBTK12S2S	Connector, 12P	
CN632	YEAEBTK08S2S	Connector, 8P	
CN781	YEAE012805	Connector, 46P	
CP602	YEAETKCF18XS	Connector, 18P	
CP603	YEAETKCF20XS	Connector, 20P	
CP611	YEAETKCF08PS	Connector, 8P	
CP617	YEAETKCF06PS	Connector, 6P	
CP623	YEAES16A075A	Flat Cable, 16P	
CP624	YEAE9604L16S	Connector, 16P	
CP625	YEAE0114TKCG	Connector, 14P	
CP627	YEAES07B040A	Flat Cable, 7P	
CP628	YEAES10B060A	Flat Cable, 10P	
CP633	K1KA12A00117	Connector, 12P	
CP634	YEAEBTK08P2S	Connector, 8P	

DISPLAY BLOCK [E8585]

Ref. No.	Part No.	Part Name & Description	Remarks
CN611	YEAETKCF08XE	Connector, 8P	
CN613	YEAE5243723	Connector, 23P	
CN614	YEAE5243723	Connector, 23P	
CN615	YEAE5243723	Connector, 23P	
CN617	YEAETKCF06XE	Connector, 6P	

1.6. Resistor Networks

MAIN/AMP/DSP/CN BLOCK [E6724B]

Ref. No.	Part No.	Part Name & Description	Remarks
RA602	EXBV8V102JV	Resistor Network	
RA603	EXBV8V102JV	Resistor Network	
RA604	EXBV8V102JV	Resistor Network	
RA605	EXBV8V102JV	Resistor Network	
RA606	EXBV8V102JV	Resistor Network	
RA607	EXBV8V102JV	Resistor Network	
RA608	EXBV8V102JV	Resistor Network	
RA609	EXBV8V102JV	Resistor Network	
RA610	EXBV8V102JV	Resistor Network	
RA621	EXBV8V102JV	Resistor Network	
RA622	EXBV8V102JV	Resistor Network	
RA626	EXBV8V102JV	Resistor Network	
RA627	EXBV8V104JV	Resistor Network	
RA628	EXBV8V104JV	Resistor Network	

DISPLAY BLOCK [E8585]

Ref. No.	Part No.	Part Name & Description	Remarks
RA611	YER34MNR681J	Resistor Network	
RA612	YER34MNR681J	Resistor Network	
RA613	YER34MNR681J	Resistor Network	
RA614	YER34MNR681J	Resistor Network	
RA615	EXBV8V102JV	Resistor Network	
RA616	EXBV8V102JV	Resistor Network	
RA617	EXBV8V102JV	Resistor Network	
RA618	EXBV8V682JV	Resistor Network	
RA619	EXBV8V561JV	Resistor Network	
RA620	EXBV8V104JV	Resistor Network	
RA621	EXBV8V102JV	Resistor Network	

1.7. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW601	YEAS09320	Switch	
SW602	YEAS09320	Switch	
SW603	YEAS09320	Switch	
SW604	YEAS09320	Switch	
SW605	YEAS09320	Switch	
SW606	YEAS09320	Switch	
SW607	YEAS09320	Switch	
SW608	YEAS09320	Switch	
SW609	YEAS09320	Switch	
SW610	YEAS09320	Switch	
SW611	YEAS09320	Switch	
SW612	YEAS09320	Switch	
SW613	YEAS09320	Switch	
SW614	YEAS09320	Switch	
SW615	YEAS09320	Switch	
SW616	YEAS09320	Switch	
SW617	YEAS09320	Switch	
SW618	YEAS09320	Switch	
SW619	YEAS09320	Switch	
SW620	YEAS09320	Switch	
SW621	YEAS09320	Switch	
SW622	YEAS09320	Switch	
SW623	YEAS09320	Switch	
SW624	YEAS09320	Switch	
SW625	YEAS09320	Switch	
SW626	YEAS09320	Switch	
SW627	YEAS09320	Switch	
SW628	YEAS09320	Switch	
SW629	YEAS09320	Switch	
SW630	YEAS09320	Switch	
VR611	EVQBAD02815B	Encoder Volume Switch	
VR612	EVQBAD02815B	Encoder Volume Switch	

CRYSTALS

Ref. No.	Part No.	Part Name & Description	Remarks
XL101	YEXL49U0433T	Crystal OSC	
XL501	YEXLCST737MT	Crystal OSC	
XL611	YEXLCR838M5T	Crystal OSC	
XL621	YEXL49U1601T	Crystal OSC	
XL701	YEXL49U07200	Crystal OSC	
XL801	YEXL49U1843T	Crystal OSC	

CERAMIC FILTERS

Ref. No.	Part No.	Part Name & Description	Remarks
CS781	YECCL55S222T	Noise Filter, 2200PF 100WV	
XL901	H2D800400002	Ceramic Filter	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L50	YELT45N4R7KT	Coil	
L51	G0B102K00003	Coil	
L101	YELT03N1R8JT	Coil	
L120	ELER102KA	Coil	
L121	YELT03N4R7KT	Coil	
L122	YELT03NR15JT	Coil	
L123	YELTBLM21B20	Coil	
L172	YELTBLM21B20	Coil	
L501	YELTBLM21B20	Coil	
L605	YELTBLM21B20	Coil	
L606	YELTBLM21B20	Coil	
L607	YELTBLM21B20	Coil	
L611	YELTBLM21B20	Coil	
L615	YELTBLM21B20	Coil	
L617	YELTBLM21B20	Coil	
L621	YELTBLM21B20	Coil	
L702	YELTBLM21B20	Coil	
L781	YETQ014T162	Coil	
L801	YELTBLM21B20	Coil	
L802	YELTBLM21B20	Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L803	YELTBLM21B20	Coil	
L804	YELTBLM21B20	Coil	
L805	YELTBLM21B20	Coil	
L806	YELTBLM21B20	Coil	
L807	YELTBLM21B20	Coil	
L808	YELT45N100KT	Coil	
L811	YELTBLM21B20	Coil	
L812	YELTBLM21B20	Coil	
L813	YELTBLM21B20	Coil	
L814	YELTBLM21B20	Coil	
L815	YELTBLM21B20	Coil	
L816	YELTBLM21B20	Coil	
L817	YELTBLM21B20	Coil	
L818	YELTBLM21B20	Coil	
L819	YELTBLM21B20	Coil	
L820	YELTBLM21B20	Coil	
L821	YELTBLM21B20	Coil	
L901	YELTBLM21B20	Coil	
L908	YELTBLM21B20	Coil	

LCD

Ref. No.	Part No.	Part Name & Description	Remarks
LCD601	YEXDCM1266	LCD	

LAMP

Ref. No.	Part No.	Part Name & Description	Remarks
Z101	YEAL02007	Neon Lamp	

VARIABLE RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
VR271	EVMEASA00B54	Variable Resistor	
VR371	EVMEASA00B54	Variable Resistor	

THERMISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R129	YERT5BA1R8MT	Thermistor	
R653	D4CC11020001	Thermistor	

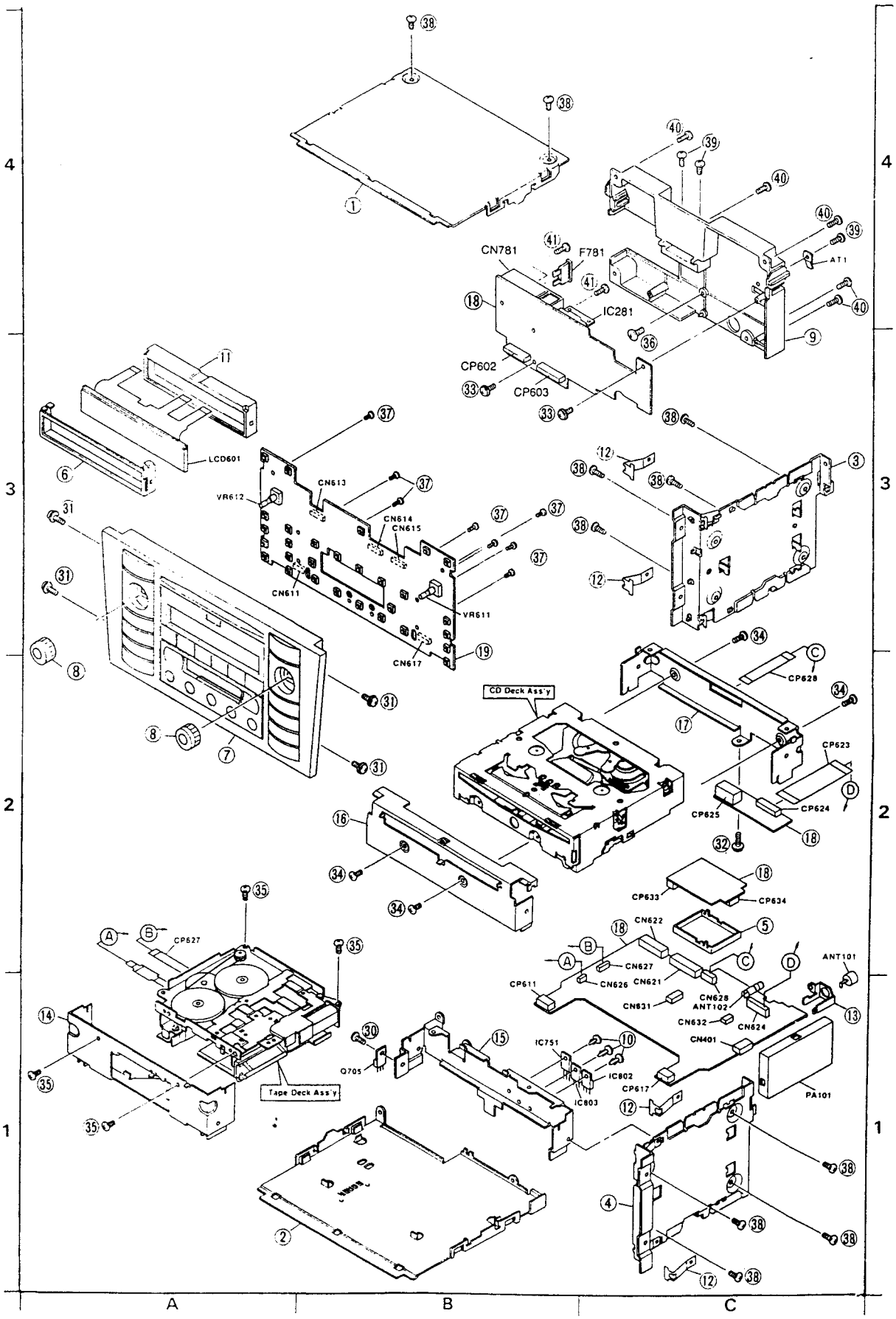
1.8. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
ANT101	YEAA10087	Antenna Receptacle	
ANT102	YEAA10098	Antenna Receptacle	
AT1,2	YEAT03435	Terminal	
AT1	YEAT03339	Terminal	
F781 ⚠	K5Y752200001	Fuse,7.5A	
1	YEFA031623	Upper Cover	(4-B)
2	YEFA05723	Bottom Cover	(1-B)
3	YEFA09611	Side Plate,L	(3-C)
4	YEFA09612	Side Plate,R	(1-C)
5	YEFA131297	DSP P.C.B. Cover	(2-C)
6	YEFA131388	Cover,LCD	(3-A)
7		Escutcheon Ass'y	(2-A)
	YEFC025989B		LA1820L
	YEFC025990B		LA1821L
	YEFC025991C		LA1822L
8	YEFE02300	Knob	(2-A)
9		Heat Sink	(4-C)
	YEFF01950		LA1820/1821L
	YEFF01972		LA1822L
10	YEFJ05041	Color Rivet	(1-C)
11	YEFK06819	Holder	(3-A)
12	YEFX0052341	Spring	(1-C) (3-C)
13	YEFX0214474	Bracket,ANT	(1-C)
14	YEFX0214576	Bracket,PCB	(1-A)
15	YEFX0214577	Bracket,PCB	(1-B)
16	YEFX0214578	Bracket,Deck	(2-B)
17	YEFX0214579	Bracket,Deck	(2-C)
18		PCB w/Component	RTL
	YEP0PT6724Z9		LA1820/1821L
	YEP0PT6724Z8		LA1822L
19	YEP0PT8585Z9	PCB w/Component	RTL
30	YEJS06017	Screw, 3mm * 8mm	
31	YEJT03007	Tapping Screw, 3mm * 5mm	
32	YEJT03009	Tapping Screw, 3mm * 8mm	
33	YEJT03120	Tapping Screw, 3 mm * 8mm	
34	YEJT03131	Tapping Screw, 2.6 * 5mm	
35	XSB26+4FX	Screw, 2.6mm * 4mm	
36	XSN5+16FX	Screw, 5mm * 16mm	
37	XTB2+6GFX	Tapping Screw, 2mm * 6mm	
38	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
39	XTB3+6JFX	Tapping Screw, 3mm * 6mm	
40	XTB3+8FFX	Tapping Screw, 3mm * 8mm	
41	XYN26+C10FX	Screw, 2.6mm * 10mm	

EXPLODED VIEW (Unit)

■ Numbers in ◯ are indicated REF.NO. in the REPLACEMENT PARTS LIST



2 CD Playre Parts List

2.1. IC's and Transistors

[E8416]

Ref. No.	Part No.	Part Name & Description	Remarks
IC101	YEAMBA6354FS	IC	
IC401	MN662741RH	IC	
IC451	YEAM75XL8503	IC	
IC901	YEAMBA6195FP	IC	
IC951	YEAMBA6891FP	IC	
Q101	2SB766ATX	Transistor	

2.2. Diodes

[E8416]

Ref. No.	Part No.	Part Name & Description	Remarks
D401	MA151ATX	Diode	
D402, 451	MA151WKTX	Diode	

2.3. Capasitors

[E8416]

Ref. No.	Part No.	Part Name & Description	Remarks
C101 to 103	YECUS1C104KX	Ceramic, 0.1μF 16WV	
C104	ECEH0JVC470F	Electrolytic, 47μF 6.3WV	
C105	ECSH0JC226CR	Tantalum, 22μFF6.3WV	
C106	YECUS1C104KX	Ceramic, 0.1μF 16WV	
C107	YECUV1C105KX	Ceramic, 1μF 16WV	
C109	YECUS1H123KX	Ceramic, 0.012μF 50WV	
C110	YECUS1H152KX	Ceramic, 0.0015μF 50WV	
C111	YECUS1H471JM	Ceramic, 470PF 50WV	
C112	YECUS1H470JM	Ceramic, 47PF 50WV	
C113	YECUV2A102KX	Ceramic, 0.001μF 100WV	
C114	YECUS1C104KX	Ceramic, 0.1μF 16WV	
C115	YECUX1C334KX	Ceramic, 0.33μF 16WV	
C116	YECUS1H273KX	Ceramic, 0.027μF 50WV	
C117	YECUS1H271JM	Ceramic, 270PF 50WV	
C118	YECUS1E104ZF	Ceramic, 0.1μF 25WV	
C120	YECUS1H272KX	Ceramic, 0.0027μF 50WV	
C121, 122	YECUS1H102KX	Ceramic, 0.001μF 50WV	
C123	ECGC0KB8R2RT	Electrolytic, 8.2μF 8WV	
C124	YECUS1H471JM	Ceramic, 470PF 50WV	
C125	YECUV1C105KX	Ceramic, 1μF 16WV	
C133	YECUS1C104KX	Ceramic, 0.1μF 16WV	
C401	YECUV1E823KX	Ceramic, 0.082μF 25WV	
C402	YECUV2A123KX	Ceramic, 0.012μF 100WV	
C403, 404	YECUV1C224KX	Ceramic, 0.22μF 16WV	
C405	YECUS1E104ZF	Ceramic, 0.1μF 25WV	
C406	ECEH0JVC470F	Electrolytic, 47μF 6.3WV	
C407	YECUS1E104ZF	Ceramic, 0.1μF 25WV	
C408	ECEH0JVC470F	Electrolytic, 47μF 6.3WV	
C409	YECUS1E104ZF	Ceramic, 0.1μF 25WV	
C410	ECEH0JV101F	Electrolytic, 100μF 6.3WV	
C411	YECUS1E104ZF	Ceramic, 0.1μF 25WV	
C451	YECUV1H104ZF	Ceramic, 0.1μF 50WV	
C452	ECEH0JVC470F	Electrolytic, 47μF 6.3WV	
C453	YECUS1H103KX	Ceramic, 0.01μF 50WV	
C454, 455	YECUS1H220JM	Ceramic, 22P 50WV	
C901	YECUS1E104ZF	Ceramic, 0.1μF 25WV	
C902	ECEH1CVC220F	Electrolytic, 22μF 16WV	
C903	YECUS1E333KX	Ceramic, 0.033μF 25WV	
C951	YECUS1E104ZF	Ceramic, 0.1μF 25WV	
C952	ECEH1CVC220F	Electrolytic, 22μF 16WV	
C953	YECUV1H104ZF	Ceramic, 0.1μF 50WV	
C955	YECUV1C105KX	Ceramic, 1μF 16WV	

2.4. Resistors

[E8416]

Ref. No.	Part No.	Part Name & Description	Remarks
R101	ERJ8GEYJ101V	Chip, 100 ohms 1/8W	
R102	ERJ12YJ270H	Chip, 27 ohms 1/2W	
R103	ERJ8GEYJ333V	Chip, 33k ohms 1/8W	
R104	ERJ8GEYJ683V	Chip, 68k ohms 1/8W	
R105	ERJ8GEYJ333V	Chip, 33k ohms 1/8W	
R106	ERJ8GEYJ683V	Chip, 68k ohms 1/8W	
R107	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R108 to 110	ERJ8GEYJ224V	Chip, 220k ohms 1/8W	
R111	ERJ8GEYJ124V	Chip, 120k ohms 1/8W	
R112	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R113	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R114	ERJ6GEYJ393	Chip, 39k ohms 1/10W	
R115	ERJ6GEYJ333	Chip, 33k ohms 1/10W	
R117	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R119	ERJ8GEYJ184V	Chip, 180k ohms 1/8W	
R120	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R401	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R402	ERJ6GEYJ823	Chip, 82k ohms 1/10W	
R403	ERJ8GEYJ105V	Chip, 1M ohms 1/8W	
R404	ERJ6GEYJ471	Chip, 470 ohms 1/10W	
R406	ERJ6GEYJ470	Chip, 47 ohms 1/10W	
R407	ERJ8GEYJ472V	Chip, 4.7k ohms 1/8W	
R408, 409	ERJ6GEYJ472	Chip, 4.7k ohms 1/10W	
R410	ERJ8GEYJ472V	Chip, 4.7k ohms 1/8W	
R411	ERJ6GEYJ334	Chip, 330k ohms 1/10W	
R412	ERJ8GEYJ472V	Chip, 4.7k ohms 1/8W	
R413	ERJ6GEYJ472	Chip, 4.7k ohms 1/10W	
R451, 452	ERJ6GEYJ563	Chip, 56k ohms 1/10W	
R453	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R454	ERJ8GEYJ472V	Chip, 4.7k ohms 1/8W	
R455	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R456	ERJ8GEYJ472V	Chip, 4.7k ohms 1/8W	
R457	ERJ8GEYJ473V	Chip, 47k ohms 1/8W	
R458, 459	ERJ6GEYJ472	Chip, 4.7k ohms 1/10W	
R460	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R461	ERJ8GEYJ472V	Chip, 4.7k ohms 1/8W	
R462, 463	ERJ8GEYJ471V	Chip, 470 ohms 1/8W	
R901	ERJ8GEYJ103V	Chip, 10k ohms 1/8W	
R902	ERJ8GEYJ333V	Chip, 33k ohms 1/8W	
R903	ERJ6GEYJ122	Chip, 1.2k ohms 1/10W	
R951	ERJ8GEYJ123V	Chip, 12k ohms 1/8W	
R952	ERJ8GEYJ472V	Chip, 4.7k ohms 1/8W	
R953	ERJ8GEYJ562V	Chip, 5.6k ohms 1/8W	
R954	ERJ8GEYJ123V	Chip, 12k ohms 1/8W	
R957	ERJ8GEYJ473V	Chip, 47k ohms 1/8W	
R958	ERJ8GEYJ274V	Chip, 270k ohms 1/8W	
R959	ERJ8GEYJ103V	Chip, 10k ohms 1/8W	
R961	ERJ8GEYJ104V	Chip, 100k ohms 1/8W	
R962	ERJ8GEYJ563V	Chip, 56k ohms 1/8W	
R963	ERJ8GEYJ272V	Chip, 2.7k ohms 1/8W	

2.5. Connectors

[E8416]

Ref. No.	Part No.	Part Name & Description	Remarks
CN101	YEAE5220715	Connector, 15P	
CN401	YEAE011TKCR	Connector, 14P	
CN901	YEAE5227106	Connector, 6P	
CN902	YEAE5326102	Connector, 2P	

2.6. Electric Parts

SWITCHES

Ref No.	Part No.	Part Name & Description	Remarks
SW2	YEP309248R	Switch	
AS1	YEAS23151A	Switch	

CRYSTALS

Ref. No.	Part No.	Part Name & Description	Remarks
XL401	YEXLCSTC169T	Crystal OSC	
XL451	YEXLCSAC419M	Crystal OSC	

COIL

Ref. No.	Part No.	Part Name & Description	Remarks
L101	YELTLM41P750	Coil	

2.7. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
	YEP0PT8416A0	PCB w/Component	RTL
TP1	YEATSD00405	Earth Terminal	
1	YEAP2509A	Flat Cable	(4-C)
2	YEFA011606	Main Chassis	(1-B)
3	YEFA011537E	Front Chassis	(3-A)
4	YEFA011733	Suspension Chassis	(3-C)
5	YEFR03080	Belt	(3-C)
6	YEFS04626	Dumper (B)	(3-B) (2-C)
6-1	YEFS04625	Dumper (A)	(3-A)
7	YEFW04144	Shaft Holder (1)	(2-A)
8	YEFW04138	Shaft Holder (2)	(2-A)
9	YEFW04150	Shaft Holder(A), Feed Screw	(4-B)
10	YEFW04137A	Shaft Holder(B), Feed Screw	(4-C)
11	YEJT03211	Feed Screw Ass'y	(4-C)
12	YEFX018465	PCB Holder	(4-A)
13	YEFX236145E	Disc Guide	(2-C)
14	YEFX0461668E	Detect Lever (R)	(1-B)
15	YEFX0461669E	Detect Lever (L)	(1-B)
16	YEFX0461671A	Detect Arm (R)	(1-B)
17	YEFX0461672A	Detect Arm (L)	(1-C)
18	YEFX0461772	Slide Plate	(1-B)
19	YEFX018435	Dumper Bracket	(3-B)
20	YEFX249407A	Lock Control Plate	(1-A)
21	YEFX0461880	Link Fook	
23	YEFX0461654A	Lock Lever (L)	(2-B)
24	YEFX0461655A	Lock Lever (R) Ass'y	(2-B)
25	YEFX0461879A	Joint Lever Ass'y	(3-A)
26	YEFX0461660A	IN Switch Lever	(3-B)
27	YEFX0461661C	LOAD Switch Lever	(3-B)
28	YEFX0461662B	OUT Switch Lever	(3-B)
29	YEFX0461846	Feeder Arm Ass'y	(2-A)
31	YEFX234179B	Clamper Cam	(4-B)
32	YEFX9991406B	Feed Screw Holder	(4-C)
33	YEFX236144A	Travers Guide	(4-C)
34	YEFX0461883A	Clamper Lever Ass'y	(4-B)
35	YEFX0461876A	Change Lever (A) Ass'y	(4-B)
36	YEFX9991458A	FPC Holder	(4-C)
37	YEFX003735B	Clamper Rack	(2-A)
38	YEFX249408C	Lever Protection Cover	(2-A)
39	YEFX0461658A	Feeder Lever	(2-B)
40	YEFX218297	Rubber Roller	(2-A)
41	YEP0FX2519	Loading Motor Ass'y	(3-A)
42	YEP0FX2522	Clamper Unit	(3-C)
43	YESSZ3179	Optical Pick up Ass'y	(4-C)
44	YEP0FX3155	Spindle Motor Ass'y	(4-C)
45	YEP0FX2525	Travers Motor Ass'y	(3-C)
46	YEFX0052107	Suspention Spring	(3-B) (3-C)
47	YEFS011325	Pad	(3-C)
49	YEFX003741B	Loding Gear (1)	(3-A)
50	YEFX003742B	Loding Gear (2)	(3-A)
51	YEFX003731A	Loding Gear (3)	(2-A)
52	YEFX003732A	Clamper Gear (1)	(3-A)
53	YEFX003733	Clamper Gear (2)	(3-A)
54	YEFX003842	Clamper Gear (3)	(3-A)
55	YEP0FX2526	Roller Gear Ass'y	(2-A)
56	YEFX003762	Roller Gear (4)	(2-A)
60	YEFX0051994	Lever Spring (A)	(1-B)
61	YEFX0051995	Lever Spring (B)	(1-C)
62	YEFX0052032	Lever Spring	(1-A)
63	YEFX0051996	Suspension Spring	(3-B) (3-C)
64	YEFX0051987	Clamper Rack Spring	(2-A)
65	YEFX0051988C	Switch Lever Spring	(3-B)
66	YEFX0051997B	Loading Motor Spring	(3-B)
67	YEFX0051590	Vibration Spring	(3-C)
68	YEFX0051992	Thrust Adjustment Spring	(4-C)
69	YEFX0051998	Change Lever(A) Spring	(4-B)
70	YEFX0052000B	Clamper Arm Spring	(4-B)
71	YEFX0051991C	Side Pressure Spring	(3-B)
72	YEFX0052059	Feeder Arm Spring (2)	(1-B)
73	YEFX0051986	Feeder Arm Spring (1)	(3-A)
74	YEFX9991635	Lock Lever	
80	XUC15V	Retaining Ring, 1.5mm	(3-C)
81	XUC2V	Retaining Ring, 2mm	(1-B) (2-A)
82	YEJE01004	Retaining Ring 2mm	
83	YEJW04128	Polyslider, 3.1mm	(2-A) (2-B)
84	YEJS06097A	Screw, 2mm×2.5mm	(3-B) (4-C)
86	YEJS02018FZ	Screw, 1.6mm×7mm	(4-C)
87	YEJT03152	Tapping Screw, 2.6mm×5mm	
88	YEJT03132	Tapping Screw, 2.6mm×4mm	(1-A) (3-A)
89	YEJT03131	Tapping Screw, 2.6mm×5mm	(3-B)
90	YEJT03180	Tapping Screw, 2.6mm×6mm	(4-A)
91	XQN17+A25FX	Screw, 1.7mm×2.5mm	(3-B) (4-C)
92	XYN2+J10FX	Screw, 2mm×10mm	(4-B)

3 Tape Player Parts

3.1. Diodes

[E8098A]

Ref. No.	Part No.	Part Name & Description	Remarks
TE1, 2	YEADRPI221	Photo Reflector	

[E8100A]

Ref. No.	Part No.	Part Name & Description	Remarks
D1	YEADEC10DS1	Diode	

3.2. Capacitor

[E8098A]

Ref. No.	Part No.	Part Name & Description	Remarks
C1	YECUV1E334ZF	Ceramic, 0.33μF 25WV	

3.3. Resistors

[E8098A]

Ref. No.	Part No.	Part Name & Description	Remarks
R1, 2	ERJ8GEYJ683V	Chip, 68kΩ 1/8W	
R3 to 6	ERJ8GEYJ472V	Chip, 4.7kΩ 1/8W	
R7, 8	ERJ8GEYJ821V	Chip, 820Ω 1/8W	

[E8100A]

Ref. No.	Part No.	Part Name & Description	Remarks
R1	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R2	ERJ8GEYJ472V	Chip, 4.7kΩ 1/8W	
R3	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	

3.4. Connectors

[E8098A]

Ref. No.	Part No.	Part Name & Description	Remarks
CN2	YEAE012406	Connector, 10P	

[E8100A]

Ref. No.	Part No.	Part Name & Description	Remarks
CN1	YEAE012405	Connector, 7P	

3.5. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW1	YEAS09277	Switch	
SW2	YEAS07174	Slide Switch	
SW3	YEAS08042	Micro Switch	
SW4	YEAS09277	Switch	
SW5	EVQWXY001	Rotary Switch	

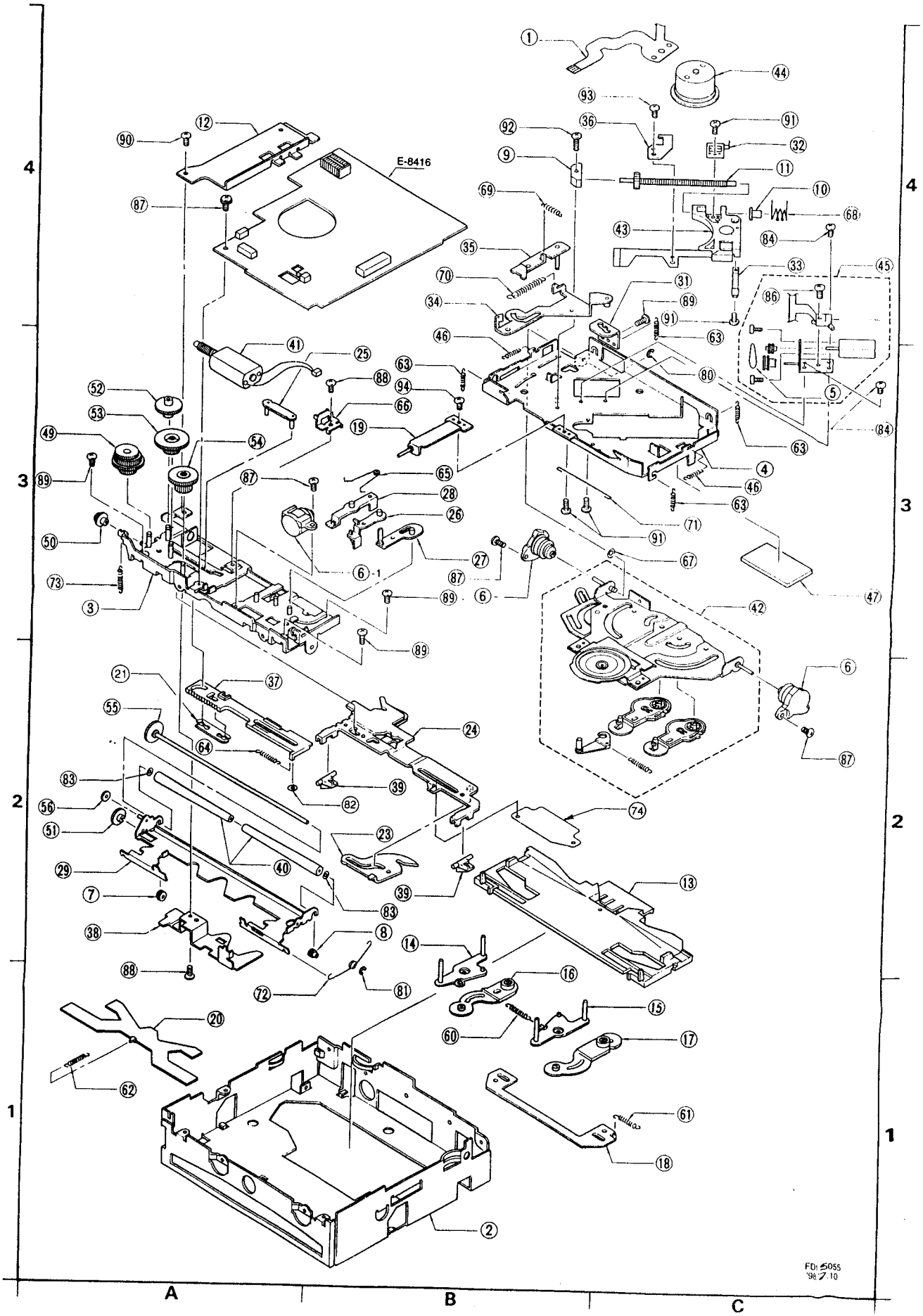
3.6. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
1	YEFA011640A	Main Chassis Ass'y	
2	YEFA011551A	Head Chassis Ass'y	
3	YEP9FZ2473	Head Ass'y	
4	YEFR03083	Belt	
5	YEFW05353	Shaft Collar	
6	YEFX218286	Pinch Roller Ass'y(F)	
7	YEFX218287	Pinch Roller Ass'y(R)	
8	YEFX003748A	Drive Gear(2)	
9	YEFX239424A	Cassette Guide PlatE	
10	YEFX0461685D	Cassette Holder Ass'y(U)	
11	YEFX003749	Drive Gear(3)	
12	YEFX0461688A	Lever	
13	YEFX003750	Drive Gear(4)	
14	YEFX0052021A	Lever Spring	
15	YEFX209268A	Reel Ass'y(F)	
16	YEFX0052016	Spring	
17	YEFX0052018	Idler Plate Spring(1)	
18	YEFX0052019	Idler Plate Spring(2)	
19	YEFX04616B7D	Cassette Holder(L)	
20	YEFX0052020	Pinch Roller Pressure Spring	
21	YEFX0052022	Rack Return Spring	
22	YEFX0052043A	Lock Plate Spring	
23	YEFX0052023B	Rack Plate Spring	
24	YEFX003752E	Rack Plate	
25	YEFX209269A	Reel Ass'y(R)	
26	YEFX234182	Winding Cam(F)	
27	YEFX003754	Transit Gear	
28	YEFX234183	Winding Cam(R)	
29	YEFX003755	Program Change Gear	
30	YEFX003744A	Idler Gear Plate Ass'y(F)	
31	YEFX003746A	Idler Gear Plate Ass'y(R)	
32	YEFX030097	Thrust Bearing, worm gear	
33	YEFX003753A	Play Idler Gear	
34	YEFX0052015	Back Tension Spring	
35	YEP0FX2565	Main Motor Ass'y	
36	YEP0FX3154	Drive Chasis Block	
37	YEFX213209A	Flywheel	
38	YEP0FX9027S	Loading Motor Ass'y	
39	YEP0PT8100A0	PCB w/Component	RTL
40	XUC15V	Retaining Ring	
41	YEJE01036	Retaining Ring	
42	YEFX014040	Retaining Ring	
43	YEFX014041	Retaining Ring	
44	YEJE01004	Retaining Ring	
45	YEJW05134	Washer	
46	YEJW04123	Washer	
47	YEJS06097A	Screw, 2mm×2.5mm	
48	XYN2+J6FX	Screw, 2mm×5mm	
50	YEJS06185	Screw, 2.6mm×3.5mm	
52	XYN2+C8FX	Screw, 2mm×8mm	
53	YEJE01026	E-Ring	
54	YEFX0052185	Spring	
55	YEFX003779	Worm Gear	

EXPLODED VIEW (CD Deck)

■ Numbers in ◯ are indicated REF.No. in the REPLACEMENT PARTS LIST



EXPLODED VIEW (Tape Deck)

■ Numbers in ◌ are indicated REF.No. in the REPLACEMENT PARTS LIST